THE IMPACT OF COMPUTERIZED AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS) OPERATIONS ON AGRICULTURAL CREDIT DELIVERY IN NIGERIA FROM 1978 - 1998



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# By

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A Project Submitted to the department of Mathematics\Computer Science, Federal University of Technology, Minna, Niger State in Partial Fulfilment of the Requirement for the Award of Post-Graduate Diploma in Computer Science.

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## CERTIFICATION

Having read through this project carried out by me (Mr. John Akintoye Adeboyeku), we certify that this project work is originally written by above named student and has met the standard OF the requirement for both the department and the institution in general.

Dr. Yomi Aiyesimi (Project Supervisor) Date

Dr S.A. Reju (Head OF Department)

**External Examiner** 

Date

Date

## DEDICATION

To the Glory OF God, and the support of my wife (Mrs. Abosede Olufunke Adeboyeku) for giving me all logistics and moral support. May the Lord bless her abundantly, (Amen).

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Finally, I am also grateful to all my friends and collegues that are classmates of this study in the Central Bank of Nigeria, Minna and Abuja, for providing with the necessary publication and data used in this study. I pray Almighty God to reward and bless you all, (Amen).

## ABSTRACT

One of the major constraints identified as confronting higher agricultural productivity in Nigeria is inadeqate capital, modern tools and credit facilities to the farmers in Nigeria.

In order to ameliorate the funding situation of the farmers, the government of Nigeria through the monetary authority directed all commercial Banks to allocate certain percentages of their total lending to agricultural sectors yearly.

Moreover, the Federal Military Government also took a major step by establishing the Agricultural Credit Guarantee Scheme Fund (ACGSF) by decree No. 20 of 1977 to shoulder 75% of the risk of default by farmers.

However, since the establishment of the ACGSF in 1977 to date, the method of storing processing and retrieval of farmers information and records have been a traditional method which therefore causes the following problems :

- 1. In appropriate method of storing information
- 2. In adequate methods of processing farmers record on ACGSF
- 3. Time consumption
- 4. Duplication of farmers record
- 5. Mis-handling of farmers file

6. At long last, termites ends up by eating the pile of farmers file at CBN offices.

Because of the importance attached to the farmer's record and also because of the above mentioned problems, there is need to transform the traditional methods of processing (Manual based) to the modern methods that entail the use of "Electronic Data Processing" machine, popularly known as the "COMPUTER". Hence this project work intends to look into the "Impact of Computerised Agricultural Credit Guarantee Scheme (ACGS) on agricultural credit Delivery in Nigeria from 1977 - 1998

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## **CHAPTER ONE**

## 1.0 INTRODUCTION

### **1.1 BACKGROUND TO THE STUDY**

Agriculture used to be the mainstay OF the Nigerian economy well before independence until early 70's when oil become the dominant factor OF the economy. More than 85 percent OF Nigerians were engaged in one form OF farming or the other. However, agriculture suffered severe neglect since the advent OF oil boom in early 70's. As a result, the nation started to import food and other agricultural products that were hitherto, produced in the country. Finally, the value OF food imports rose from N819million in 1970-5 to N7577 million in 1981-85, a rise OF 925.15 percent.

Many factors combined to cause this decline. Important among these factors according to Olaloku are "the low yield variety OF crops and planting materials used by a large proportion OF the farming population, inadequate extension services, the poor condition OF feeder roads and other transport facilities, inadequate supplies OF agricultural inputs, the problem OF diseases and the <u>center OF them all</u> is in adequate credit facilities".

In order to reverse this undesirable situation successive Government in Nigeria have taken several steps to boost agricultural production in the country. Notable among these efforts were the National Accelerated Food Production Program (1973), Operation feed the Nation (1976), the Green Revolution(1980), Directorate OF food, Road and Rural infrastructure (1986).

Special projects were also embarked upon to enhance agricultural production such as World Bank assisted Agricultural Development projects, River Basin and Rural Development Authority, Mass Enlightenment campaigns, introduction OF technology package and provision OF fertilizers and improved seedlings to farmers were also some OF the attempts made at raising agricultural productions. In the area OF agricultural financing, policy measures introduced include Rural Banking and Landing programmes, Direct financing OF Agricultural Credit, Concessional interest rate on Agricultural loans, Sectoral Allocation and Agricultural Credit Guarantee Scheme(ACGS) which is our main focus.

### **1.2 STATEMENT OF THE PROBLEM**

One OF the major constraints identified as confronting higher agricultural productivity is inadequate capital and credit facilities to farmers.

In order to ameliorate the finding situation OF farmers, the government through the monetary authority to allocate certain percentages OF their total lending to agricultural sector yearly.

The Federal Military Government also took a major step by establishing the Agricultural Credit Guarantee Scheme Fund(ACGS) by Decree No 20 OF 1977 to shoulder 75percent of the risk of default by farmers.

The decree provides for a fund of N100 million subscribed to by the Federal Military Government (60 per cent) and the central Bank of Nigeria (40 per cent). The purpose of the Fund is to provide guarantee in respect of loans granted by any Bank for agricultural purposes with the aim of increasing the level of Bank credit to the agricultural sector. "Loan" under the Decree includes advances, overdrafts and any Credit facility.

The Fund is under the management of the Agricultural Credit Guarantee Scheme Fund Board and the central bank Of Nigeria is the managing agent for the administration of the scheme. The work relating to the scheme at the Head Office of the Central bank is handled in the Agricultural Finance department of the bank headed by the Director of Agricultural finance. In order to avoid delay, much of the work on the scheme is decentralized to the Central Bank of Nigeria in the states in which transaction under the scheme takes place. Sectoral Allocations Moratorium on agricultural loans and concessional interest on such loans was also introduced as a policy instrument by the government in order to make loan repayment easy for farmers.

All these policy measures were introduced in order to enhance the financial position of the farmer which hopefully translates into easy access to farm inputs hence higher agricultural productivity.

The problems facing agricultural production either as a foreign exchange earner and more importantly as a source of food for the nation should engage the attention of all and sundry. According to Bola(1985),"A nation that cannot afford to feed itself and has to rely on importation (more so in an era of scarce foreign exchange) is on a suicidal route"<sup>2</sup>

Lawal (1993) also notes that "Credit Supply in Agriculture has long been identified as a veritable tool towards agricultural development in developing countries" <sup>3</sup>. The case of Asian countries like Indian and Pakistan which share similar Socio-economic stratification of Agricultural Communities with Nigeria readily comes to mind. According to Amin(1976)Bulk of the farmers are in the peasant category.<sup>4</sup> Thus, their economic and financial status is very weak. This situation is the same with what obtain in Nigeria according to Bola<sup>5</sup>.

The Central bank of Nigeria was mandated to organize, manage and administer the scheme through a Board. However, administrative, technical and inconsistent government policies constitute serious set backs to the success of these programmes resulting in poor performance of the Scheme.

## **1.3 OBJECTIVE OF THE STUDY**

Agricultural Credit to farmers is an important instrument in improving farm productivity and marketing. Therefore, the major theme of this study is the impact of CBN Agricultural Credit Guarantee Scheme(ACGS) on Agricultural Credit Delivery in Nigeria as a whole and Niger State in particular. Specific objectives of the study include:

- To show the extent to which the Central Bank of Nigeria has played a significant role towards influencing agricultural credit delivery through the Agricultural Credit Guarantee Scheme (ACGS) over the years.
- 2. To examine the case study or implementation of Central Bank of Nigeria, Minna, Niger State in particular.
- 3. To identify the problems hindering the achievement of desired objectives of the Central bank within the stated period.
- 4. To examine the System development and Implementation
- 5. To recommend solutions to some of the problems faced by both farmers and institutions providing the credit
- 6. To design a Software Package(ACGS) that will captured all applicant requesting for loan and
- Generate all necessary forms of reports for management decision making from the ACGS software.

## 1.4 SCOPE OF STUDY

In this study, emphasis is placed on assessing the impact of Central bank's Agricultural Credit Guarantee Scheme ACGS on Agricultural Credit delivery in Nigeria on one hand and the operations of its activities in Niger State on the other.

The ACGS is going to be examined with the instrument put in place to ensure its success such as moratorium on Agricultural loans, Concessionality interest rate, Sectoral prescription and relations to the Nigeria Agricultural and Cooperative bank.

## 1.5 LIMITATIONS OF THE STUDY

A study of this nature cannot be devoid of problems or limitations. The major constraint was

- 1. There were few writings on Agricultural financing within reach and the few that are available were far apart.
- 2. Data collation from annual reports and other publications of CBN proved to be too taxing and time consuming.
- High cost of traveling from one place to another due to percuiliar High cost of petrol in order to gather necessary information.

## **CHAPTER TWO**

## 2.0 LITERATURE REVIEW

## 2.1 MEANING OF AGRICULTURAL CREDIT

Agricultural Credit is money advanced to an individual or an organization for agricultural purposes. The borrower pays the money after a specified period. He pays the principal plus the interest.

According to Baker(1965) "Credit is an asset or a financial reserve, and loan is any portion of this that is used on which the user incurs an interest charged". However, majority of the Nigerian farmers are small scale farm operators and usually the credit approved for them are fully disbursed because they are small and barely enough for their needs. Thus equating credit and loans. The few exceptions are in large scale agricultural projects where approved credits are of large sizes and are therefore drawn-down in trenches of loans.

Abe(1981), also defined agricultural credit as "that which encompasses all loans and advances granted to borrowers whether beneficiaries of agricultural reforms or some other one to finance and service production activities relating to agriculture, fisheries and for processing, marketing, storage and distribution of products resulting from these activities".

In Nigeria, as well as over the world, it is important to note that agriculture is no longer a homogenous industry, as it is made up of several distinct groups with unique characteristics. Whether the farmer is an individual or a family unit or a co-operative group, the types of finance required are conditioned by certain factors such as:

I. Identification and accessibility to appropriate finance.

ii. Availability of loanable funds from the identified source.

iii. Satisfaction by the borrowing farmer of the lender's criteria which are noted in sound

principles of lending and

iv. Accommodation of such credits within the law of the land and in accordance with economic, political, monetary, fiscal and societal policies of government.

## 2.2 TYPES OF AGRICULTURAL CREDIT

There seems to be a general consensus in the literature that agricultural credit can be divided into three categories.

#### 1. SHORT TERM FINANCE

This is required to cover annual (seasonal) working capital for growing crops, wages, purchase of feeds and other short term assets that are completely used up during production.

### 2. MEDIUM TERM FINANCE

This encompasses funds tied up for two to five years in asset that are eventually used in the production process. These assets are partly fixed like vehicles, tractors and livestock.

### 3. LONG TERM FINANCE

This is usually needed to finance fixed assets such as land and land rights, construction of farm buildings, purchase of machinery, plants and equipment, etc. for development purposes. The period normally ranges from ten years upward.

The above Classification is based on the duration and usage of the credit. Makings(1987)<sup>3</sup> while accepting the above categorization, based his own on the type of farmer using the loan. According to him there are distinct categories of need in agriculture for which credit is required and these are:

- 1. Emergent Farmer Credit
- 2. Commercial Farmer Credit
- 3. Group Development Credit

Emergent farmers are those land users who are a little more than subsistence producers seeking to

establish a foothold in the market Economy. They constitute a majority of the farming population. Commercial farmers on the other hand are the important but smaller class. Group development Credit is an essential category of need for use at the group or Community level.

## 2.3 SOURCES OF AGRICULTURAL CREDIT

There are different sources of funds for agricultural purposes, which analysts have classified in a number of ways. Formal and Informal, Non institutional and Institutional, Private and Public, Internal and External, etc. These classifications are based on certain features.

When we talk of institutional and non institutional, we are trying todraw a line between funds hat can be obtained from banks and non-banking government established agencies and those btainable from unorganized private money lenders/ unrecognized groups on the other hand.

Also classification of funds sources into internal and external implies distinguishing between funds provided by sponsors of a project and unallocated funds (re-invested funds) generated by the project from previous operations on one hand and funds source from outside the project on the other hand.

In Nigeria, one can identify four broad categories of banks that are involved directly in providing credit to farmers. They are:

- 1. Central Bank Of Nigeria which by its peculiarities is unique being also the apex bank.
- 2. The Commercial Bank which supply a substantial portion of total agricultural credit in the economy; especially the short and medium term loans.
- 3. Merchant Bank are required to give medium to long term credits to Nigerian farmers.
- 4. The development banks which are specialized financial institutions expected to play significant roles by their long term financing of agro allied industries. The Nigerian Agricultural and Co-Operative Bank(NACB) is entirely required to finance farmers directly or through their bodies all over the Country.

It is important to note the role played by foreign institutional sources notably International Bank for Reconstruction and Development(IBRD) otherwise known as World Bank. Its mode of operation is to extend loans to national governments for the purpose of financing development projects thus, sparing itself the task of dealing directly with numerous investors. In this way, the bank had advanced substantial loans to Federal and state governments for Agricultural Development projects in which a large number of Nigerian rural dwellers are actively engaged.

## 2.4 ROLE OF AGRICULTURAL CREDIT

There are divergent views as to exact causes of the poor state of the agricultural sector. urious scholars seem to have arrived at a consensus that the most important factor that has tended inhibit any meaningful improvement is the inadequacy of credit facilities, because modern ...griculture apart from being capital intensive and mechanized is carried out on a large scale.

Given the predominantly subsistence nature of the peasant farmer, he relies mainly on his own capital or/and borrowing from friends, local money lenders and traders which apart from their inadequacy carry with them exorbitant interest charges.

Miller(1954) observed that "lack of credit is generally recognized as an important constraint in expanding food production and modernizing agriculture. Adopting new technology he believes ordinarily requires the use of some inputs which are not available on the farms and hence must be purchased from others"<sup>4</sup>.

Lack of credit or finance may not necessarily prevent the adoption of new technology by some financially able individuals and organization. Experience in Nigeria has shown that unless agricultural credit is made available on suitable terms, majority of small farmers will be seriously handicapped. In Nigeria, these small scale farmers are the most important group, hence it is then not large producers that Nigeria must look for in most of its expanded food production.

The United Nations through its Food And Agriculture Organization(1965) reported that

"agricultural credit makes a substantial improvement in agricultural production, ultimately, raising the standard of living of the rural population, in as much as it provides the farmer with a means of improving his land, of using modern tools and machinery and of introducing better methods of cultivation"<sup>5</sup>.

From the foregoing assertions and conclusions, one can sum up the assumptions behind conventional credit programmes as being:

I. The farmers need credit to adopt new technology.

ii. That they cannot get credit at reasonable cost from unrecognized private sources outside the programme.

iii. That the provisions of credit breaks the most important constraint of small farmer's progress.Many studies have shown the potential effect of increased level of capital in agricultural production.

Ogunfowora(1972) concluded that "when increased capital base is combined with improved technology, greater opportunity exists for larger volume of production and higher level of farm income"<sup>6</sup>. Agricultural Credit is meant to enable the farmer purchase productive equipment and other farm inputs. Credit is therefore, less important to agricultural development of these equipment and supplies are not readily available at convenient markets. Where they are readily available and the farmers are capable of learning how to use them, agricultural credit can accelerate the adoption of improved technique.

It is important to de-emphasize over rating of agricultural credit as a panacea for low productivity. FAO(1965) observed that "Agricultural credit is only one of the many factors playing a part in the complicated process of stepping up agricultural production. It is stressed that, far from being a panacea, credit is not even the harmless patent medicine which it is often thought to be"<sup>7</sup>.

For agricultural Credit to perform its functional role of increasing farm productivity, it has to be properly utilized and this is dependent on the provision of certain preconditions among which are extension service, technology, education and training. FAO(1965)<sup>8</sup> summarized these prerequisites necessary for successful implementation of agricultural credit policies as follows:

- The existence of adequate and efficient socio-economic planning and the desire of all parties and groups concerned to implement it. Effective planning presupposes the existence of adequate statistical and an effective administration at all levels.
- ii. An adequate rural infrastructure(roads, rail, storage,etc.)
- iii. An efficient system of stabilizing fluctuation in prices for agricultural produce.
- iv. A proper system of land tenure.
- v. Adequate and effective arrangement for marketing and supply.
- vi. A well organized and satisfactory operated agricultural extension service and
- vii. Continuity in government/policies.

Agricultural Credit Schemes are like any other economic venture and from this perspective, it is important that it has to balance its total cost against total returns. This means that there is the need for adequate feasibility studies and investment appraisal is imperative to the success of the credit programme which depends on the success of the individual farms is envisaged.

# 2.5 TECHNOLOGY, EXTENSION AND AGRICULTURAL CREDIT

### TECHNOLOGY

Agricultural credit will be ineffective without a technology that is profitable or viable. Technology in farming implies the way things are done i.e. a given set of inputs or factors of production. Thus, traditional technology means the particular way the inputs of land, labour, seeds, organic fertilizer, land implements, oxen, etc. are combined and used. New technology refers to a new set of inputs or factors of production which are difficult and often better than the traditional set.

Two studies(Miller, 1966, Meyer 1972) have concluded that "it is not profitable to further expand the use of traditional technology through credit. This is primarily due to the very low production functions that exist for traditional practices". It is thus, argued that further expansion of the traditional technology will not increase the small scale farmer's net income commensurate with the adopted costs and risk involved in borrowing capital to finance such expansion. Thus, emphasis is supposed to be on relevant and viable new technology.

It is however presumptions to say that new technology is available or can be readily available when desired. Even if it is available, it may not be profitable having not been tested and adopted under the conditions similar to those in Nigeria.

In conclusion, it can be said that when a new technology is available and has been understood by farmers, perceived appropriately and proved profitable then credit requirement assumes importance. In this circumstance, the lack of capital and credit would pose a serious limitation to the adoption of new technology.

#### EXTENSION SERVICES

Agricultural extension could be explained as the mechanism by which the new technology is developed, modified, carried and translated to the farmer in coordination with the provision of credit when needed. "Agricultural extension has the long term objective of securing improvements in the efficiency of production and distribution of all food and agricultural products, bettering the condition of the rural population and thus playing the central role of raising the standard of living and the level of national economy"<sup>9</sup>.

Extension service, credit and other relevant services all aim at a particular purpose, to help farmers increase their production and income hence improve their living standards. Therefore, a good approach towards a successful credit programme should be one integrated with provision of extension services to farmers. FAO(1965) believes that to have an adequate impact on agricultural production, the provision of credit should be accompanied by and coordinated with sufficient amount of technical advice. Particularly at early stage of agricultural development, supervised credit should compensate for greater part of extension education.

Belahaw(1959) says that supervised credit is a technical term which describes a particular system of credit provision aimed at improving both production and family living standards; and also coordinates credit provision with extension services and aims at effective supervision, but usually goes further, for example, in making improved provision for marketing and other auxiliary services<sup>10</sup>

Emphasizing the importance of complementary role of extension services to agricultural credit, Johnson (1982) states that" no agricultural credit programme can be effective unless it is combined with satisfactory extension services and other forms of support.......... Production credit given together with technical advice and help is called supervised credit"<sup>11</sup>.

Despite the complementary nature of credit and extension service, FAO(1965) notes that little initiative has been shown from the side of the agricultural credit institution or from that of extension services to bring about the essential coordination between credit and extension education. It warns that expansion of agricultural credit without the provision of an adequate amount of extension education is a medicine which effect may be worse than the disease. It concludes that agricultural credit and agricultural extension, exercise great influence in the rural areas of developed countries where high level of education and technical know-how is needed. In developing countries, they should be properly co-ordinated so as to render credit as an effective instrument for promoting economic and social progress.

## 2.6 PROBLEMS IN AGRICULTURAL CREDIT

The Agricultural Credit system generally faces some organizational and operational problems which include the following:

#### a. STRUCTURAL

This has two aspects namely: (1) Bureaucracy and (ii) Top-down Implementation

#### I. BUREAUCRACY

There is excess paper work on one hand and multiple level of decision making on the other hand before credit is granted. Any un-necessary diffusion of decision making process definitely leads to inefficiency, creates room for abuses and political meddling in purposes and procedure of the agricultural credit system.

## ii. <u>TOP-DOWN IMPLEMENTATION PROBLEM</u>

Usually, Board and Committees of the Institution set the policies. Hardly, then, are clients represented in the committee. One adverse effect of this is that institutions employees look up to the top for support and reward rather than on the clientele for services.

#### b. LOAN SUPPLY SHORTAGES

One major defect in the credit programme of most developing countries and Nigeria in particular is the inability of organizations to meet or a significant proportion of the credit needs of farmers. This even calls to question the arbitrary manner in which amounts applied for are cut and approved by lending institutions without thorough assessment and appraisal of the implication of such actions on the cash position and subsequent viability of the project.

### c. **PERSONNEL**

In Nigeria, little time and money is spent to train specialists to run an efficient credit programme. In most cases, top officials are appointed on ethnic, religion and other parochial considerations. Ugoh(1977) in his criticism of the approach where people without the requisite expertise are posted to manage these institutions, stated that "a successful civil Servant is one who can master the good reason why no action should be taken on amateur.

#### d. POOR SUPERVISION OF LOANS

There are instances where the credit institutions do not provide complementary input and/or supervision(in the form of farm inputs, technical assistance and supervision itself). Extension workers are supposed to supervise the introduction of innovation to farmers as well as monitor and evaluate credit programme on a continuous basis. There has been lack of interest, poor supervision and unsatisfactory record keeping of detailed information on loan beneficiaries. These approaches negatively impact on the efficient and effective operation of Agricultural credit system. The extension workers are not entirely to be blamed. Lack of fund and inadequate facilities which have become prevalent in recent times have tended to constraint the performance of these tasks as expected.

#### e. DELAY IN TIME OF LOAN DELIVERY

Timeliness of loan disbursement is very vital farming. Since most farm operations are seasonal and time specific (such as planting, weeding, harvesting), labour inputs have to be paid for promptly, but what is obtainable in practice is that it takes a long time for funds to be released to users even where they have been approved accordingly. This suggests that timeliness of loan delivery may facilitate proper utilization and thus enhances their effective repayment of such loans.

### f. COST OF CREDIT

The cost of providing credit is measured by the interest rate charged. Adegeye et al (1982), contended that, "that the cost of providing credit, which is measured by the interest rate, is therefore not only the basic cost of capital (i.e. the next best use of money) but the cost of supervising the loan (administrative charges), and the risk premium for the possibility of default in repayment as well as a charge for possible inflation"<sup>13</sup>. All these contribute to make the cost of institutional lending quite high as charging interest rates below that needed

to cover the cost of lending means subsidization which few less developed countries in reality can afford.

#### g. DEFAULT IN LOAN REPAYMENT

Loan default can be defined as the "inability of a borrower to fulfil his or her own loan obligation as and when due. An overdue loan obligation usually includes that part of the principal (unpaid) and accrued interest payments stipulated in the loan agreement schedule which were entered into during loan negotiations"<sup>14</sup>.

Various factors have been identified as major determinants of loan delinquency. Empirical evidence from Okorie (1986) showed that "the nature, time of disbursement, supervision and profitability of enterprises which benefited from such loans... contributed to the repayment ability and consequent default rates"<sup>15</sup>.

Secacy (1985) identified some mutually related factors which influence loan deliquency in farmers credit programme to include "low income, due to poor production and poor prices, which may in turn be related to misuse of loan procedure, lack of technical supervision, inefficient government policies and small size farms"<sup>16</sup>. In particular, secacy identified sheer poverty due to poor farm income as being the primary root of delinquency and that the level of indebtedness, mis-allocation of loans, low sales proceeds, low educational attainment and tenurial status might be associated with the low level incomes. Secacy's study also showed that "about 30 percent of farmers surveyed, for example, admitted using the loans for family expenses"<sup>17</sup>.

In all high default rates in credit programmes should be the major concern of policy makers in developing countries, and Nigeria in particular. This is due to its unintended negative impact on agricultural financing and output. According to Von Piselike (1980), some default include "inability to recycle funds to their borrowers, detriment of other

financial intermediaries from serving the needs of farmers, and the creation of distrust"<sup>18</sup>.

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## **CHAPTER THREE**

## 3.0 THE CONCEPT OF SYSTEM ANALYSIS AND DESIGN

## 3.1 PROCESS OF PROGRAM DEVELOPMENT

The software or systems development process is a cooperative effort of the users and computer professionals. While, computer professionals are those familiar with the technology and it can be applied to meet a business information processing needs, users on their side have an indepth familiarity with their respective functional areas. The skills and knowledge of these two groups complement each other and can be combined to create any type of information system during the system's development process.

However, because systems development is a team effort, most organizations have adopted a standardized Systems development methodology that provides a framework for cooperation. This step-by-step system development approach is illustrated below in tabular form.

### STEPS ACTIVITIES MEASURABLE OUTPUT

Analysis &	Appraisal of existing situation.	Assessed need report
Specification Design	Identification of user requirements Design the overall program structure	Implementation of feasibility report Process logic specifications, using
Programming	Design the detailed processing logic. Writing of code in the appropriate	Pseudocode or flowchart technique Hand written program code
	processor language.	
	Entry of written code into the	Computer printed list-out of code
Testing	computer Removal of syntax and logic errors	
&		
Debugging	Final testing of program	Error-free program execution

&

Maintenance User training

Program development and upgrade procedures.

System development process is essentially the same, be it for an airline reservation system, Micro-Credit Scheme System or an Inventory Management System. As member of a *Project Team* progress through the procedures outlined in a systems development methodology, the result of one step provides the input for the next step and/or subsequent steps. The project team typically is made up of both users and computer professionals. The methodological approach to systems development is a tool that information services and user-managers employ to coordinate the efforts of a variety of people engaged in a complex process. For a successful program development of the ACGS software, it is assumed that the writer of the project is part of the project team (programmer) and the following five (5) important phases of system development were fully examined by the author.

## 3.2 UNDERSTANDING SYSTEM ANALYSIS/ANALYSIS OF ACGS

System analysis according to Fapohunda (1995) is defined as the process of examining an existing system. The existing system could be manual-based operation or computerized system. The essence of the analysis is to find the deficiency in an existing system for proper and adequate new system to be put in place of the old system.

However, in order to understand the analysis of ACGS, the existing operation (manual method) at the Central Bank of Nigeria, CBN, is divided into four component parts which are discuss  $e^{d}$  below.

### THE EXISTING ACGS (MANUAL) SYSTEM

Before designing a new or enhanced Information System, sufficient and proper grasp of the existing work and information flow was made. This was done by conducting interview with the staff of ACGS department of CBN, Minna. The interview and observation gathered from the case study were documented and the information flow of the proposed ACGS System was reduced to the basic component (input, Processing, and Output) for easy design technique of the ACGS software.

#### SYSTEM'S (ACGS) OBJECTIVES

Since the existing system is documented, analysis was carried out on the documentation in order to identify the obvious, and the not so obvious problems of the manual existing operation, including inefficiencies in information flow and storage, duplication of effort, deficiencies in information dissemination, staff discontent, problems with customers interaction, inaccuracy of operational data, and so on.

After the identification of all relevant and non-relevant problems, possible solutions were used in order to commence the system design for the attainment of the system objectives.

#### DESIGN CONSTRAINTS

Here, the intended ACGS system will be developed subject to specific constraints encountered during the time of system analysis of the existing operation. The purpose of this activity is to detail, at the onset of the systems development process, any costs, hardware schedule, procedural, software, database and operating constraints that may limit the definition and designation of the target system (ACGS Software).

### REQUIREMENT DEFINITION

Having completed the analysis that resulted in the definition of some certain variables for proper data processing and information requirement. The interview and observation made became the functional specifications for the system input, processing and the output requirements.

However, the functional specifications show the logic of the system (Input/Output, Work and Information flow) from the perspective of the users.

## 3.3 SYSTEMS (ACGS) DESIGN PROCEDURES

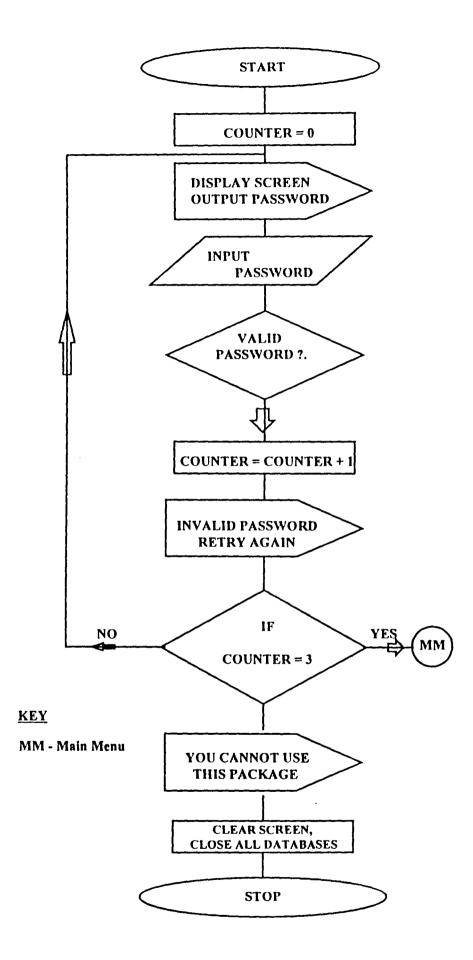
The system design stage of the ACGS Design process produces three (3) output as follows:

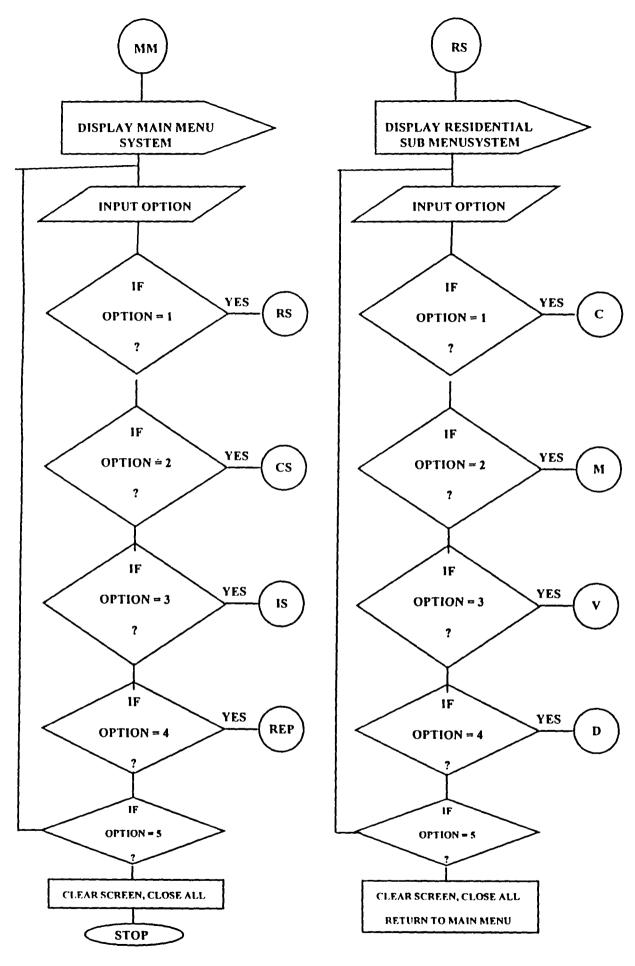
### 1. GENERAL SYSTEM DESIGN

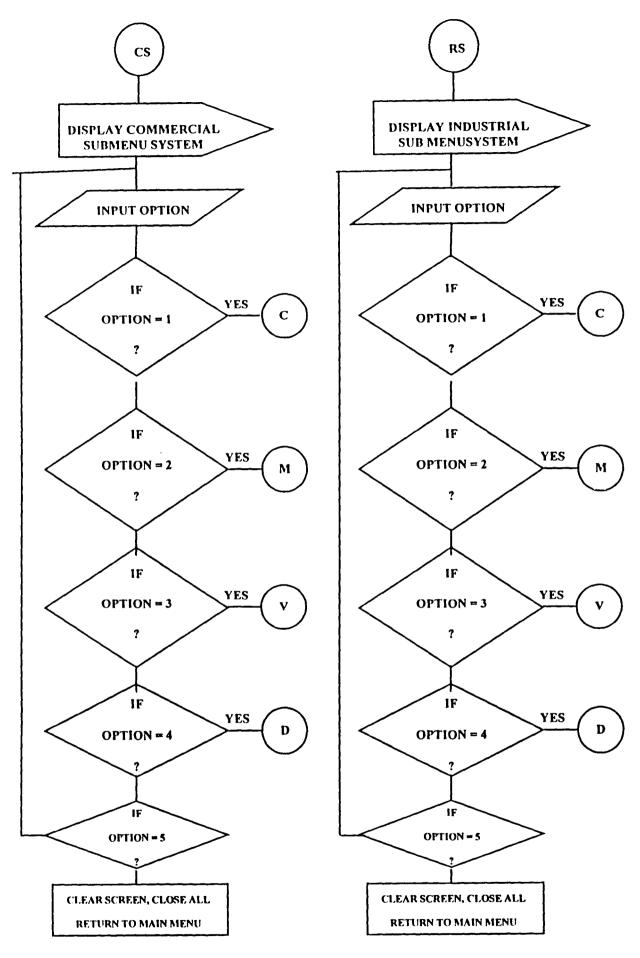
The general system design includes the flowchart (procedures), a written explanation (Pseudocode) of the above graphical representation and the general descriptions of the outputs to be produced by the system (ACGS Software). This includes the screen display and hard copy (paper report).

### **FLOWCHART**

Flowchart is the graphical representation of data, information and work flow by the interconnection of specialized symbols and flow lines. The combination of symbols and flowlines portray the logic of the program or system. Below is the ACGS System design flowchart.







### 2. DATABASE DESIGN

The database is the common denominator of any system. It contains the raw materials (data) necessary to produce the output, hence all ACGS files (records) are stored in their respective database file as explained below.

### **BANK.DBF**

The Bank database file contains all the record of information that is used for applicant cash transfer and repayment. The physical structure of the database is as shown below: -

<u>S/No</u>	FIELDNAME	WIDTH	TYPE
1.	BANKCODE	02	CHR
2.	BANKNAME	30	CHR
3.	SHORTNAME	03	CHR

### TYPE.DBF

The TYPE.DBF is the file that contains all types of available loan information (i.e. Individual loan, Company loan, Informal loan and Co-operative loan). The physical structure of the database is as shown below: -

<u>S/No</u>	FIELDNAME	WIDTH	TYPE
1.	TYPECODE	02	CHR
2.	NAME	15	CHR

### **CATEGORY.DBF**

This database file is used to store all types of project categories' information (i.e. Food Crops, Cash Crops, Mixed Farming, etc.). The physical structure is as shown below: -

<u>S/No</u>	FIELDNAME	WIDTH	TYPE
1.	CAT_CODE	02	CHR
2.	CAT_NAME	15	CHR
3.	CATEGORY	15	CHR

## **REQUEST.DBF**

The request database file is the master database file of the ACGS System. A master file is a file that contain all the necessary information needed for the proper and adequate updating/running of the ACGS System. Below is the physical structure of the database file used.

<u>S/No</u>	FIELDNAME	WIDTH	TYPE
1.	REGDATE	8	DATE
2.	REGTIME	8	CHR
3.	REQUESTNO	4	NUM
4.	LOANCODE	2	CHR
5.	LOANDESC	15	CHR
6.	NAME	30	CHR
7.	ADDRESS	20	CHR
8.	LOCATION	20	CHR
9.	CAT_CODE	2	CHR
10.	CAT_DESC	15	CHR
11.	BANKCODE	2	CHR
12.	BANKNAME	30	CHR
13.	SHORTNAME	3	CHR
14.	ACCTNUMBER	19	CHR
15.	AMT_WANTED	14,2	NUM
16.	AMT_GIVEN	14,2	NUM
17.	PAY_TODATE	8	DATE
18.	BALANCE	14,2	NUM
19.	PAY_DATE	8	DATE
20.	DURATION	3	NUM

21.	LOANDATE	8	DATE
22.	REMARK	8	CHR
23.	CODE1	1	NUM
24.	NAMEI	20	CHR
25.	AMT_WANT1	12,2	NUM
26.	AMT_PAID1	12,2	NUM
27.	PAY1	12,2	NUM
28.	BAL1	12,2	NUM
29.	PAYDATE1	8	DATE
30.	CAT_CODE1	2	CHR
31.	CAT_DESCI	15	CHR
33.	CODE2	2	CHR
33.	NAME2	20	CHR
34.	AMT_WANT2	12,2	NUM
35.	AMT_PAID2	12,2	NUM
36.	ΡΑΥ2	12,2	NUM
37.	BAL2	12,2	NUM
38.	PAYDATE2	8	DATE
39.	CAT_CODE2	2	CHR
40.	CAT_DESC2	15	CHR
41.	CODE3	2	CHR
42.	NAME3	20	CHR
43.	AMT_WANT3	12,2	NUM
44.	AMT_PAID3	12,2	NUM
45.	PAY3	12,2	NUM

ł

46.	BAL3	12,2	NUM
47.	ρλγρατε3	8	DATE
48.	CAT_CODE3	2	CHR
49.	CAT_DESC3	15	CHR
50.	CODE4	2	CHR
51.	NAME4	20	CHR
52.	AMT_WANT4	12,2	NUM
53.	AMT_PAID4	12,2	NUM
54.	ΡΛΥ4	12,2	NUM
55.	BAL4	12,2	NUM
56.	PAYDATE4	8	DATE
57.	CAT_CODE4	2	CHR
58.	CAT_DESC4	15	CHR
59.	CODE5	2	CHR
60.	NAME5	20	CHR
61.	AMT_WANT5	12,2	NUM
62.	AMT_PAID5	12,2	NUM
63.	PAY5	12,2	NUM
64.	BAL5	12,2	NUM
65.	PAYDATE5	8	DATE
66.	CAT_CODE5	2	CHR
67.	CAT_DESC5	15	CHR

## PAYMENT.DBF

This is the database file that is used to store all loan repayment made by the applicants that requested for ACGS loan scheme. The physical structure of the database is as shown below

<u>S/No</u>	FIELDNAME	WIDTH	TYPE
1.	REGDATE	8	DATE
2.	REGTIME	8	CHR
3.	REQUESTNO	4	NUM
4.	ACCTNUMBER	19	CHR
5.	LOANCODE	2	CHR
6.	LOANDESC	15	CHR
7.	NAME	30	CHR
8.	AMT_WANTED	14,2	NUM
9.	AMT_GIVEN	14,2	NUM
10.	PAY_TODATE	8	DATE
11.	BALANCE	14,2	NUM
12.	PAY_DATE	8	DATE
13.	CODEI	1	NUM
14.	NAME1	20	CHR
15.	AMT_WANTI	12,2	NUM
16.	AMT_PAID1	12,2	NUM
17.	PAY1	12,2	NUM
18.	BALI	12,2	NUM
19.	PAYDATEI	8	DATE
20.	CODE2	2	CHR
21.	NAME2	20	CHR
22.	AMT_WANT2	12,2	NUM
23.	AMT_PAID2	12,2	NUM
24.	PAY2	12,2	NUM

BAL2	12,2	NUM
PAYDATE2	8	DATE
CODE3	2	CHR
NAME3	20	CHR
AMT_WANT3	12,2	NUM
AMT_PAID3	12,2	NUM
РАҮ3	12,2	NUM
BAL3	12,2	NUM
ΡΑΥΔΑΤΕ3	8	DATE
CODE4	2	CHR
NAME4	20	CHR
AMT_WANT4	12,2	NUM
AMT_PAID4	12,2	NUM
PAY4	12,2	NUM
BAL4	12,2	NUM
PAYDATE4	8	DATE
CODE5	2	CHR
NAME5	20	CHR
AMT_WANT5	12,2	NUM
AMT_PAID5	12,2	NUM
PAY5	12,2	NUM
BAL5	12,2	NUM
PAYDATE5	8	DATE
	PAYDATE2 CODE3 NAME3 AMT_WANT3 AMT_PAID3 PAY3 BAL3 PAYDATE3 CODE4 NAME4 AMT_WANT4 AMT_PAID4 PAY4 BAL4 PAY4 BAL4 PAY4 BAL4 PAY4 AMT_PAID4 CODE5 NAME5 AMT_PAID5 AMT_PAID5 BAL5	PAYDATE28CODE32NAME320AMT_WANT312,2AMT_PAID312,2PAY312,2BAL312,2PAYDATE38CODE420AMT_WANT412,2AMT_PAID412,2PAY412,2PAYDATE48CODE52NAME520AMT_WANT512,2PAY512,2PAY512,2PAY512,2

3.

#### DETAILED SYSTEM DESIGN

The detailed *Input/output*, Processing and Control requirements, which this stage entails, is the result of the analysis of users' feedback on the general system design. The system design of the ACGS System depicts the relationship between major processing activities, and it is detailed enough for users to determine whether or not that is what they want. This detail design includes all processing activities and the input/output associated with them.

#### 3.4 INPUT SPECIFICATION

The Input Specification is an interactive avenue between the computer and the ACGS System. Users communicate by the process of data entries to the system.

#### 3.5 OUTPUT SPECIFICATION

The Output Specification gives a format of the expected result of the data entries previously being made. Here, all necessary reports generated are based on the desired output specification from the ACGS system design. The reports generated are mainly for Management decision-making and for future use analysis.

#### 3.6 THE STRUCTURE OF THE ACGS

The proposed ACGS menu is designed and structured to be menu-driven, simple, flexible and easy to use and understand. The structure of the main menu is as shown below in figure 1.0

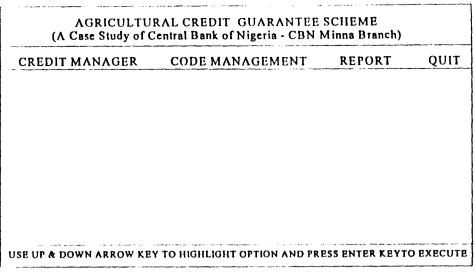


Fig. 1.0 Main Menu System

#### <u>CREDIT MANAGER</u>

This menu option is where data entries are going to be taking place for the following options:

- 1 LOAN REQUEST
- 2 LOAN REPAYMENT
- 3 EXIT TO MENU

The Credit Manager is activated by placing the pointer on the option, followed by a press on the ENTER key to execute and display the sub-menu options mentioned above. The general format of the Credit Manager option is as shown below in fig. 2.0

CREDIT MANAGER	CODE MANAGEMENT	REPORT	QUI
LOAN REQUEST	]	1	
LOAN REPAYMENT	CREATE NEW RECORD		
	MODIFY RECORD		
EXIT TO MENU	VIEW RECORD		
	DELETE RECORD		
	EXIT TO MENU		

Fig. 2.0 Credit Manager Sub-Menu System

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#### **CODE MANAGEMENT**

This menu option is used to predefine certain variables into the database file. This variable or information, are those data that are not likely to change for a long period of time. On pressing the ENTER key on this option (Code Manangement), it displays a submenu that contains the following option.

- 1. REGISTRATION OF LOAN TYPE
- 2. REGISTRATION OF BANK
- 3. PROJECT CATEGORY
- 4. EXIT TO MENU

Below is the general format of the Code Management option in fig.3.0

CREDIT MANAGER	CODE MANAGEMEN	T REPORT QUI
	REG.OF LOAN TYPE	CREATE NEW RECORD
	REG. OF BANK	MODIFY RECORD
	PROJECT CATEGORY	VIEW RECORD
	EXIT TO MENU	DELETE RECORD
		EXIT TO MENU

Fig. 3.0 Code Management Sub-Menu System

#### REPORT

This menu option is used to generate all the necessary reports as desired with respect to the output specification. This option is an interactive environment where the end user can decide to choose within two options (i.e. whether the report should be sent to SCREEN or PRINTER). Below are all the report expected to be generated.

- 1 REPORT ON TYPE OF LOAN
- 2 REPORT ON REGISTERED BANK
- 3 LIST OF PROJECT CATEGORY
- 4 LIST OF APPLICANTS REQUESTING FOR LOAN
- 5 LOAN REQUEST BY LOAN TYPE
- 6 LOAN REQUEST BY PROJECT CATEGORY
- 7 LOAN REPAYMENT & BALANCE STATUS

The general format of the Report menu option is as shown below in fig. 4.0

(A Case Study of C	Central Bank of Nigeria - CBN 1	Minna Branch)	
CREDIT MANAGER	CODE MANAGEMENT	REPORT	QUI
I. REP	ORT ON TYPE OF LOAN		
2. REP	ORT ON REGISTERED BANK	1	
3. LIST	OF PROJECT CATEGORY		
4. LIST	OF APPLICATION REQUESTING FOR	LOAN	
S. REP	ORT ON LOAN REQUEST BY LOAN TY	PB	
6. REP	ORT ON LOAN REQUEST BY PROJECT	CATEGORY	
7. LOA	N REPAYMENT AND BALANCE STAT	US	
I. BXII	T TO MENU		
		{	

Fig. 4.0 Report Generation Sub-Menu System

#### 3.7 COST BENEFIT ANALYSIS

The Cost Benefit Analysis, is the analysis of the total cost (Expenses) that is needed in order to put the ACGS into real implementation irrespective of people, and environmental constraints.

However, it is quite important to note that, cost benefit analysis at times is difficult to quantify at best, but must be done in order to estimate the financial and operational impact with the organisation (Case Study).

Below is the cost benefit analysis of implementing the ACGS system in a tabular form.

S/NO	<b>DESCRIPTION OF ITEM</b>	UNIT	RATE	AMOUNT
(A)	ОР	ERATIONAL C	OST	
1.	Complete Computer System	1	250,000	250,000.00
2.	HP Laser Jet 6L Printer	1	65,000	65,000.00
3.	Epson LQ 2170 Printer	1	95,000	95,000.00
4.	Stabiliser (Automatic Power Regulator)	I	55,000	55,000.00
5.	UPS (Un-Interrupted Power Supply)	1	65,000	65,000.00
6.	Equipment Maintenance	1	70,000	70,000.00
7.	Miscellaneous Expenses	I	20,000	20,000.00
	TOTAL ON ITE	CM (A)		620,000.00
(B)	DEV	ELOPMENTAL	COST	
1.	System Analysis, Design and Program Development	Lot	250,000	250,000.00
2.	ACGS Implementation	Lot	50,000	50,000.00
3.	Personnel Training for 4 Weeks	5 Staff	10,000	10,000.00
4.	ACGS Installation	Lot	25,000	25,000.00
	TOTAL ON ITE	CM (B)		375,000.00
	GRAND TOTAL (	(A) + (B)		995,000.00

#### **BENEFITS TO BE DERIVED FROM THE PROPOSED**

These includes all the benefit to be derived from the use of the new system. They are :

- COMPREHENSIVENESS This refers to the ease with which relevant users can understand what the system is doing and how it functions.
   ADAPTABILITY This is the extend, efficiency and ease with which the system can be adjusted to meet the changing needs of particular users or various users.
   TOLERANCE This refers to the degree to which the system is tolerant of users making slight variations and error in interaction.
- PRECISE This refers to the avoidance of ambiguity in information content and necessary user action.
- HELPFULNESS This is the amount of support given to assist users in performing required tasks.
- **FRIENDLINESS** This refers to the politeness of messages and dialogues.

# **CHAPTER FOUR**

#### 4.0 **PROGRAMMING & IMPLEMENTATION REVIEW**

#### 4.1.0 PROGRAMMING

The next stage or challenge is to translate the system design and specification of the ACGS into an instruction that can be interpreted and executed by the computer. This, of course is the programming phase. The ideas formulated in previous chapter are translated into reality. The programming phase of the ACGS program developmental process can be divided into three (3) phases: -

#### 4.1.1 PROGRAM IDENTIFICATION & DESCRIPTION

All the module programs needed for the achievement of the ACGS software are fully identified and described here. This includes the total number of program files, database files needed, report generated and so on.

The essence of this is to enable the writer/programmer determine the application package that will be suitable for the coding of the program. All the program files are available in the project appendix.

#### 4.1.2 CHOICE OF PROGRAMMING LANGUAGE

The choice of programming language of the ACGS System is an important factor in any program development. From our previous analysis, it is suffice to say that the ACGS system is going to be used to store large volume of data/information, and time to time retrieval of records. Because of this fact, the choice of programming language chosen for the development is Database Management System (DBMS) Software with special preference to DBASE IV and CLIPPER 2.0.

Specifically, the choice of DBASE IV and CLIPPER 2.0 is because of the following features possessed by the packages.

- 1. It is user friendly.
- 2. It is easy to write an active user interface program and also simple to understand.
- 3. Individual database files can be designed to meet specific requirements of a particular functional unit of an organisation.
- 4. It minimizes data redundancy
- 5. Provide easy and greater access to information
- 6. Data integrity can be maintained
- 7. Clipper 2.0 allow the program file to compile to executable object file, thereby allowing the ACGS to be run independent of the Dbase IV and Clipper 2.0 that was used in developing the ACGS software.

#### 4.1.3 PROGRAM CODING

Since we are using Dbase IV and Clipper 2.0 for developing the ACGS software, the program can either be <u>Coded Or Written</u>. This choice is a matter of personal preference since the two terms are the same. Here, the graphics and narative design of ACGS developmental stages previously mentioned are translated into machine-readable instruction, or programs.

However, since the analysis was based on top-down modular programming (i.e. fro complex to simple), the coding then becomes very easy, as they are already in a procedural form (modules) for easy and better understanding of the programmer.

#### 4.2 SYSTEM IMPLEMENTATION

The essence of program testing is to make sure that the program is error-free and that all the logic involved are well defined and straight forward. On the other hand, system implementation is a broad term that encompasses testing and conversion. The system implementation involved testing

the ACGS with live data by several of the people who will eventually use the system. Testing with live data provides an extra level of assurance that the system will work properly when implemented.

However, once the testing has been completed, the ACGS enter the production stage (Usage) of the system life cycle, hence the ACGS is said to have become operational. Therefore, system implementation is a collective phases of program testing, troubleshooting, and lastly converting from the old system to the new system.

#### 4.3 TESTING AND DEBUGGING OF ACGS

After the coding of the program into the system, it is likely to encounter at least one unexpected bug. A bug is either a syntax error (violation of one of the rules for writing instructions) or a logical error. Ridding a program of bugs is the process of debugging. In view of the above, the ACGS has been fully tested with real life data under different environment and people, and have been found to be efficient in terms of flow of data, speed and accuracy.

#### 4.4 SYSTEM CONVERSION

Once the ACGS is implemented and goes on-line, the emphasis switches from development to operations. This then becomes a cooperative effort between the users and the case study personnel.

The achievement of the system conversion is based on the previuos analysis which is a cooperative effort of both the users and the programmer. Here, the method to be used in the conversion process must have been clearly stated in order not to cause set back during program coding process. Thus, system conversion is the process of changing over from an existing old system (computerised or manual) to a newly developed system. Conversion can be implemented by using any of the four method mention below:-

- 1. Parallel changeover
- 2. Direct changeover
- 3. Staged changeover
- 4. Pilot changeover

Staged changeover was implemented for the ACGS conversion. This is because the program coding was based on the top-down modular programming thereby allowing the program to be written and runned in a procedural forms. This therefore mean that one procedural program must run accurately and well tested for a particular stage before moving to another procedural stage.

Hence, staged changeover is the process of changing from one old stage to a new stage, this is actually implemented based on procedure (from one level to the next level). The final stage will never be reached until the previous stages have proved efficient and accurate.

### 4.5 HARDWARE AND SOFTWARE REQUIREMENT

In order to make maximum utilization of the ACGS system, certain hardware and software need to be acquired. This will include all the hardware components and the software components.

#### HARDWARE REQUIREMENT

The hardware facilities to be acquired must be those components that will stand the test of time, especially as we are about going into another millenium when virtually all hardware system using *Microprocessors* may not functions properly because of the date problems. Hence, the system to be acquired should be in compliance with the year 2000. A system with the following minimium features is recommended:-

- PENTIUM 333MHZ CELERON INTEL
- 32MB RAM
- ♦ 43GB HDD

- ♦ 36X CD-ROM DRIVE +SOUND CARD+ 2 Nos of SPEAKERS
- SVGA 14"MONITOR
- ENHANCED KEYBOARD
- MICROSOFT MOUSE

The following peripherals/Accessories are needed along with the computer hardware. They are:-

- ♦ STABILIZER (Automatic Voltage Regulator)
- UPS (Un-Interrupted power supply)
- ♦ A PACKET OF 3.5" DISKETTES
- ♦ COMPUTER SYSTEM COVER

#### SOFTWARE REQUIREMENT

Software, which is the non-physical part differs significantly from hardware. Software is thus another term for the progam that tell the hardware what to do. Without software, hardware is useless to anyone. Software can be compared to music residing on a cassette tapes or records, without the tapes, the stereo becomes useless to itself.

Therefore, in order to run the ACGS software and to be able to use the computer system for other official purposes, the following software need to be installed on the acquired hardware.

- Operating System Software (Windors "95 or 98 and MS-DOS 6.22)
- Application Software Packages
- WordPerfect for Windows
- Complete Office 97 Software
- Dbase IV & Clipper 2.0
- ♦ ACGS Software

However, other application software packages that can be installed on the system later depend on the desired choice of interest.

## **CHAPTER 5**

## 5.0 GENERAL SUMMARY AND CONCLUSION

#### 5.1 SUMMARY

This project work-The Impact of Computerized Agricultural Credit Guarantee Scheme (ACGS) on Agricultural Credit Delivery in Nigeria from (1978-1998) is written with a particular interest on Central Bank of Nigeria, Minna Branch as a case study. The project is summariesd into five chapters for proper reference as explained below:-

Chapter one of this project work emphasised on introduction, Background of the study, statement of the problems, objectives of the study and limitation of the study.

Chapter two on the other hand, did not fail to discuss the literature Review, Meaning of Agricultural Credit, Types of Agricultural Credit, Source of Agricultural Credit and the Role of Agricultural Credit.

Also, chapter three which is believed to be the heart of the ACGS software development was fully discussed under the following heading: Concept of System Analysis and Design, process of program Development, understanding system Analysis, Design of ACGS and procedures (flowchart), input specification, output specification and structure of the ACGS software.

However, chapter four explained, programming and implementation, program Identification and Description, Choice of programming Language, System Implementation, Testing and Debbugging of ACGS, System Conversion, Hardware and Software Requirement.

Lastly, chapter five which is the Summary and Conclusion, gives an overall summary of the whole project work of the five chapters.

#### 5.2 CONCLUSION

The use of computer system in our daily life and various organisation have received increased attention in the recent years. One good reason for this keen interest is the general desire to improve and changeover from the old system (Manual method) to a new designed system (ACGS Software) of the CBN, Minna Branch in order to deal with the Management decision making and also improve the improper documentation of loan by storing them into the ACGS data base files.

Therefore, the ACGS manual method was fully analysed without living an aspect untouched all in the name to achieve the designation of a new system called the ACGS software. Hence, the ACGS have been tested, validated and have equally proved to be efficient in all ramification.

#### 5.3 **RECOMMENDATION**

Since the ACGS software have proved excellent. I therefore recommed the followings :

- The Software (ACGS SOFTWARE) should be implemented in other branches of Central Bank of Nigeria in the country at large.
- (2) I also recommend that it should be networked as the Federal Government of Nigeria waited to increase the percentage of Agricultural Credit Scheme in Nigeria. The Network will indeed help in area of division of labour among the staff during the data entry process.

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Hopkins P. 175 - 182 1983.

# APPENDIX

*
*AUTHOR : ADEBOYEKU J. A. *LICENSEE : CENTRAL BANK OF NIGERIA, MINNA BRANCH *PROJECT TITLE : THE IMPACT OF ÄGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS) ON AGRICULTURAL CREDIT DELIEVRY IN NIGERIA FRO M (1978-1992)
Set Talk off
Set Echo off
Set Bell off
Set Stat off
Set Scor off
Set Safe off
Set Conf off
Set Esca off
set proc to clap
Set date to brit
private sc_hpop // Saves horizontal popup
clear
*do floor
*do warn
x = inkey (2)
Set color to w+/br, , *do lftcarpet
*do le1
do lc2
@ 00.00 clear to 05.79
@ 00,00 to 05,79 color "w+/r" ( ) / p cbn1="THE IMPACT OF ÂGRICULTURAL CREDIT GUARANTEE SCHEME
cbn1="THE IMPACT OF 'AGRICULTURAL CREDIT GUARANTEE SCHEME
(ACGS)"
cbn2="(A Case Study of Central Bank of Nigeria - CBN, Minna)"
@ 01,(80-len(cbn1))/2 say cbn1
@ 02,(80-len(cbn2))/2 say cbn2
Do while .t.
<ul> <li>@21,08 clea to 23,71</li> <li>@21,08 to 23,71</li> <li>@22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option &amp; press '+chr(17)+chr(196)+chr(217) +' key to select'</li> <li>@ 04,01 prompt "CREDIT SCHEME"</li> <li>@ 04,20 prompt "CODE MANAGEMENT"</li> <li>@ 04,40 prompt "REPORT"</li> <li>@ 04,55 prompt "UTILITY"</li> </ul>

\*

```
@ 04,70 prompt "Exit"
menu to ch1
Do case
 case chl = 1
    do CS
 case ch1 = 2
    do CM
 case ch1 = 3
    do REPorter
 case ch1 = 4
    do UTY
 othe
    exit
Endcase
Enddo
clear
@23,01 say "CREDIT SCHEME, Undergoes Normal Shut Down...!!!"
Return
*
```

```
Procedure CS
```

```
Do while .t.
Set color to w+/b
(a) 06,00 clear to 12,24
(a) 06,00 to 12,24
@21,08 clear to 23,71
@21,08 to 23,71
@22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press
'+chr(17)+chr(196)+chr(217) +' key to select'
@ 07,1 prompt " Loan Request......»"
@ 09,1 prompt " Loan Repayment......»"
@ 11,1 prompt " Exit Main Menu......"
menu to fchoice
Save screen to sc_vpop
Do case
 CASE fchoice = 0
    loop
 case fchoice = 1
    do LReq
 case fchoice = 2
```

do LRep othe exit Endcase clea Restore Screen from sc\_vpop Enddo Return

\*

Procedure LReq Do while .t. Set color to w+/b @ 08,25 clear to 18,44 @ 08,25 to 18,44 @21,08 clear to 23,71 @21,08 to 23,71 @22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press '+chr(17)+chr(196)+chr(217) +' key to select' @ 09,26 prompt " Creat New File.." (a) 11,26 prompt " Modify File....." @ 13,26 prompt " View File......" (a) 15,26 prompt " Delete File....." @ 17,26 prompt " Exit Menu......" menu to ch2 Save screen Do case case ch2 = 0loop case ch2 = 1do clreq case ch2 = 2do mlreq case ch2 = 3do vlreq case ch2 = 4do dlreq other exit

Endcase

.

Rest Screen Enddo Return

Procedure LRep Do while .t. Set color to w+/b @ 08,25 clear to 18,44 @ 08,25 to 18,44 @21,08 clear to 23,71 @21,08 to 23,71 @22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press '+chr(17)+chr(196)+chr(217) +' key to select' (2) 09,26 prompt " Creat New File.." (a) 11,26 prompt " Modify File....." @ 13,26 prompt " View File......" (a) 15,26 prompt " Delete File....." @ 17,26 prompt " Exit Menu......" menu to behoice Save screen Do case case behaice = 1do clrep case behaice = 2do mlrep case behoice = 3do vlrep case behaice = 4do dlrep case behaice = 0loop other

exit Endcase clea Restore Screen Enddo Return

Procedure CM

```
private sc vpop
Do while .t.
Set color to w+/b
@ 06,20 clear to 12,44
@ 06,20 to 12,44
@21,08 clear to 23,71
@21,08 to 23,71
@22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press
'+chr(17)+chr(196)+chr(217) +' key to select'
@ 07,21 prompt " Regist.of Loan Type...»"
@ 09,21 prompt " Registration of Bank.»"
(a) 11,21 prompt " Exit Main Menu......"
menu to fchoice
Save screen to sc vpop
Do case
 CASE fchoice = 0
     loop
 case fchoice = 1
     do RLT
 case fchoice = 2
    do RB
 othe
    exit
Endcase
clea
Restore Screen from sc vpop
Enddo
Return
```

Procedure RLT Do while .t. Set color to w+/b

```
@ 08,45 clear to 18,63@ 08,45 to 18,63
```

```
@21,08 clear to 23,71
@21,08 to 23,71
@22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press '+chr(17)+chr(196)+chr(217) +' key to select'
```

```
(a) 09,46 prompt " Creat New File.."
(a) 11,46 prompt " Modify File....."
(a) 13,46 prompt " View File....."
(a) 15,46 prompt " Delete File....."
(a) 17,46 prompt " Exit Menu......"
```

menu to tchoice Save screen Do case case tchoice = 1do crlt case tchoice = 2do mrlt case tchoice = 3do vrlt case tchoice = 4do drlt case tchoice = 0loop other exit Endcase **Restore Screen** Enddo Return

Procedure RB Do while .t. Set color to w+/b

(a) 08,45 clear to 18,63(a) 08,45 to 18,63

```
@21,08 clear to 23,71
@21,08 to 23,71
@22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press '+chr(17)+chr(196)+chr(217) +' key to select'
@ 09,46 prompt " Creat New File..."
@ 11,46 prompt " Modify File....."
@ 13,46 prompt " View File....."
@ 15,46 prompt " Delete File....."
@ 17,46 prompt " Exit Menu......"
```

menu to tchoice Save screen Do case case tchoice = 1do crb case tchoice = 2do mrb case tchoice = 3do vrb case tchoice = 4do drb case tchoice = 0loop other exit Endcase **Restore Screen** Enddo Return \*

Procedure reporter private sc\_vpop Do while .t. Set color to w+/b @ 06,29 clear to 21,78 @ 06,29 to 21,78

```
@22,08 clear to 24,68
@22,08 to 24,68
@23,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press '+chr(17)+chr(196)+chr(217) +' key to select'
```

```
(a) 07,30 prompt " 1. Report on Applicants Requesting for Loan"
(a) 09,30 prompt " 2. Report on Approved Loan to Applicants..."
(a) 11,30 prompt " 3. Report on Individual Loan Issued Out...."
(a) 13,30 prompt " 4. Report on Informal Loan Issued Out....."
(a) 15,30 prompt " 5. Report on Co-operative Loan Issued Out..."
(a) 17,30 prompt " 6. Report on Company Loan Out......"
(a) 19,30 prompt " 7. List of Applicants/Certificate Number..."
(a) 21,30 prompt " 8. Exit Main Menu......"
```

menu to fchoice Save screen to sc\_vpop

Do case CASE fchoice = 0loop case fchoice = 1do rep1 case fchoice = 2do rep2 case fchoice = 3do rep3 case fchoice = 4do rep4 case fchoice = 5do rep5 case fchoice = 6do rep6 case fchoice = 7do rep7 othe exit Endcase clea Restore Screen from sc\_vpop Enddo Return

Procedure UTY private sc\_vpop Do while .t. Set color to w+/b @ 06,55 clear to 14,77 @ 06,55 to 14,77

@21,08 clear to 23,71
@21,08 to 23,71
@22,10 say 'Use '+chr(25)+' or '+chr(24)+' key to highlight option & press '+chr(17)+chr(196)+chr(217) +' key to select'
@ 07,56 prompt " Introduction......»"
@ 09,56 prompt " Backup Files......»"
@ 11,56 prompt " Restore Files......»"
@ 13,56 prompt " Exit Main Menu....."

menu to fchoice

Save screen to sc\_vpop Do case CASE fchoice = 0 loop case fchoice = 1!attrib +r intro.txt !edit intro.txt case fchoice = 2do bf case fchoice = 3do RFile othe exit Endcase clea Restore Screen from sc\_vpop Enddo Return

.

----- PROCEDURE CLREQ ----proc clreq clear set color to w+/b set proc to header do head do xpublic do initial subh="Registration of Customer's Requesting for Loan" (a)05,(80-len(subh))/2 say subhDo while .t. do while .t. &&----- Testing and Identifying Loan TYpe xloancode=space(02)fb="ENTER LOAN CODE or Press Enter Key on Loan Code to Exit" @23,02 clea to 23,77 (a)23.(80-len(fb))/2 say fb @09,05 say "ENTER LOAN CODE FOR THE LOAN TYPE : " get xloancode pict "99" read if xloancode=space(02) clear close all return endif use use type index on loancode to loancode go top seek xloancode if .not. found() fb="LOAN CODE DOES NOT EXIST, Press Any Key To Retry" @23,02 clea to 23,77 @23,(80-len(fb))/2 say fb set cons off wait " " @23,02 clea to 23,77 xloancode=space(02) loop endif xloandesc=loandesc : " get xloandesc pict "@!" @11,05 say "LOAN DESCRIPTION clea gets exit enddo xregdate=dtoc(date()) xregtime=time() set cons off @09,05 clear to 11,77 set cons on do geto l do while .t.

```
use coder
   index on requestno to coder
   go bott
   xrequestno=requestno
   if xrequestno=0
     xrequestno=1
   else
     xrequestno=xrequestno+1
   endif
  exit
 enddo
*----- Decision Making on Type of Loan ------
   if xloancode="01"
    do indivi
   endif
   if xloancode="02"
    do company
   endif
   if xloancode="03"
    do informal
   endif
   if xloancode="04"
    do corp
   endif
*----- Decision Making on Saving------
    @22,02 clea to 23,77
    set proc to saver
   do boye
    x=0
    do while x=0
     x=inkey()
     if upper (chr(x)) $ "SRA"
       exit
     endif
      x=0
    enddo
     if upper (chr(x)) $ "R"
       @07,03 clea to 19,77
       @22,02 clea to 23,77
       fb="ENTER LOAN CODE or Press Enter Key on Code to Exit"
       @23,02 clea to 23,77
       @23,(80-len(fb))/2 say fb
       xrequestno=xrequestno-1
       loop
     endif
     if upper (chr(x)) $ "A"
       clear
       close all
       return
     endif
```

use use coder index on requestno to coder go bott appe blan repl regdate with date () repl regtime with xregtime repl requestno with xrequestno repl name with xname repl address with xaddress if xshortname="FBN" use FBN index on fbn no to fbn no appe blan repl regdate with date () repl regtime with xregtime repl requestno with xrequestno repl name with xname repl fbn no with xbank no endif if xshortname="UBN" use UBN index on ubn no to ubn no appe blan repl regdate with date () repl regtime with xregtime repl requestno with xrequestno repl name with xname repl ubn no with xbank no endif if xshortname="UBA" use UBA index on uba\_no to uba\_no appe blan repl regdate with date () repl regtime with xregtime repl requestno with xrequestno repl name with xname repluba no with xbank no endif if xshortname="ABN" use ABN index on abn\_no to abn\_no appe blan repl regdate with date () repl regtime with xregtime repl requestno with xrequestno repl name with xname repl abn no with xbank no

Ì.

```
endif
   if xshortname="GTB"
     use GTB
     index on gtb no to gtb no
     appe blan
     repl regdate with date ()
     repl regtime with xregtime
     repl requestno with xrequestno
                 with xname
     repl name
     repl gtb no
                  with xbank no
   endif
     use
     use request
     appen blan
     do replreq
     use
@07,03 clea to 19,77
@22,02 clea to 23,77
Enddo
retu
*----- PROCEDURE INDIVI ------
proc indivi
     do getol
    @07,33 get xrequestno pict "9999"
    @07,40 get xloancode pict "99"
    @07,45 get xloandesc pict "@!"
    clea gets
  do while .t.
    fb="ENTER INDIVIDUAL NAME"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
    @09,33 get xname pict "@!"
    read
    if xname=space(30)
      fb="INDIVIDUAL NAME CANNOT BE EMPTY, Press Any Key To Retry"
      @23,02 clea to 23,77
      @23,(80-len(fb))/2 say fb
      set cons off
     wait " "
      @23,02 clea to 23,77
      loop
    endif
    exit
   enddo
  do while .t.
    fb="ENTER INDIVIDUAL ADDRESS"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
```

```
@11,33 get xaddress pict "@!"
 read
  if xaddress=space(20)
   fb="INDIVIDUAL ADDRESS CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23.(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER PROJECT LOCATION"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @11,55 get xlocation pict "@!"
 read
 if xlocation=space(20)
   fb="PROJECT LOCATION CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER BANK CODE"
 @23,02 clea to 23,77
 (a)23,(80-len(fb))/2 say fb
 @13,33 get xbankcode pict "@!"
 read
 if xbankcode=space(02)
   fb="BANK CODE CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (@23,(80-len(fb))/2 \text{ say fb})
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 use
 use bank
 index on bankcode to bankcode
 seek xbankcode
 if .not. found()
```

```
fb="INVALID BANK CODE, Press Any Key To Retry"
      @23,02 clca to 23,77
      @23,(80-len(fb))/2 say fb
      set cons off
      wait " "
      @23,02 clea to 23,77
     loop
    endif
    xbankname=bankname
    xshortname=shortname
    @13,37 get xbankname pict "@!"
    @13,70 get xshortname pict "@!"
    clea gets
    exit
   enddo
*----- Generating Applicant Account/Certificate Number------
  if xshortname="FBN"
     use FBN
     index on fbn no to fbn no
     go bott
     xfbn no=fbn no
   if xfbn no=0
     xfbn no=1
   else
     xfbn no=xfbn no+1
   endif
    xbank no=xfbn no
  endif
 if xshortname="UBN"
     use ubn
     index on ubn_no to ubn_no
     go bott
     xubn no=ubn no
   if xubn no=0
     xubn no=1
   else
     xubn no=xubn_no+1
   endif
    xbank no=xubn no
  endif
  if xshortname="UBA"
     use uba
     index on uba_no to uba_no
     go bott
     xuba no=uba no
   if xuba no=0
     xuba_no=1
   elsc
     xuba_no=xuba_no+1
   endif
```

```
xbank no=xuba no
  endif
  if xshortname="ABN"
     use abn
     index on abn no to abn no
     go bott
     xabn no=abn no
    if xabn no=0
     xabn no=1
    else
     xabn no=xabn no+1
    endif
    xbank no=xabn no
  endif
  if xshortname="GTB"
     use gtb
     index on gtb_no to gtb_no
     go bott
     xgtb no=gtb no
    if xgtb no=0
     xgtb no=1
    else
     xgtb no=xgtb no+1
    endif
     xbank no=xgtb no
  endif
xacctnumber="NG"+"/"+xshortname+"/"+"99"+"/"+ltrim(str(xbank_no))+"/"+ltrim(str(xrequestno))
    @15,33 get xacctnumber pict "@!"
    clea gets
  do while .t.
    fb="ENTER LOAN DURATION IN MONTHS"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
    @15,55 get xduration pict "99"
    read
    if xduration=0
      fb="LOAN DURATION CODE CANNOT BE EMPTY, Press Any Key To Retry"
      @23,02 clea to 23,77
      @23,(80-len(fb))/2 say fb
      set cons off
      wait " "
      @23,02 clea to 23,77
      loop
    endif
    exit
  enddo
  do while .t.
    fb="ENTER PROJECT CATEGORY CODE"
    @23,02 clea to 23,77
```

```
(@23,(80-len(fb))/2 \text{ say fb})
 @17,33 get xcat code pict "@!"
 read
 if xcat code=space(02)
   fb="PROJECT CATEGORY CODE CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23.(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 use
 use category
 index on cat code to cat code
 seek xcat code
 if .not. found()
   fb="INVALID PROJECT CATEGORY CODE, Press Any Key To Retry"
   @23.02 clea to 23.77
   (23.(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 xcat desc=cat desc
 @17,37 get xcat desc pict "@!"
 clea gets
exit
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED"
 @23,02 clea to 23,77
 (@23,(80-len(fb))/2 say fb
 @19,33 get xamt_wanted pict "999,999,999.99"
 read
 if xamt wanted=0.00
   fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (a)23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT APPROVED"
 @23,02 clea to 23,77
```

```
@23,(80-len(fb))/2 say fb
    @19,50 get xamt_given pict "999,999,999.99"
    read
    if xamt given=0.00
      fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
      @23,02 clea to 23,77
      @23,(80-len(fb))/2 say fb
      set cons off
      wait " "
      @23,02 clea to 23,77
      loop
    endif
    exit
   enddo
  do while .t.
    fb="REMARKS : [A] => Approved or [N] => Not Approved"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
    @19,69 get xremark pict "!"
    read
    if xremark="A" .or. xremark="N"
     exit
    endif
   enddo
return
*------ PROCEDURE INFORMAL ------
proc informal
    @07,33 get xrequestno pict "9999"
    @07,40 get xloancode pict "99"
    @07,45 get xloandesc pict "@!"
    clea gets
  do while .t.
    fb="ENTER INFORMAL NAME"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
    @09,33 get xname pict "@!"
    read
    if xname=space(30)
     fb="INFORMAL NAME CANNOT BE EMPTY, Press Any Key To Retry"
     @23,02 clea to 23,77
     @23,(80-len(fb))/2 say fb
     set cons off
     wait " "
     @23,02 clea to 23,77
     loop
    endif
    exit
   enddo
  do while .t.
    fb="ENTER INFORMAL ADDRESS"
```

1

```
@23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @11,33 get xaddress pict "@!"
 read
 if xaddress=space(20)
   fb="INFORMAL ADDRESS CANNOT BE EMPTY, Press Any Key To Retry"
   @23.02 clea to 23.77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER PROJECT LOCATION"
 @23,02 clea to 23,77
 (a)_{23},(80-\text{len}(fb))/2 \text{ say fb}
 @11,55 get xlocation pict "@!"
 read
 if xlocation=space(20)
   fb="PROJECT LOCATION CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (a)23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER BANK CODE"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @13,33 get xbankcode pict "@!"
 read
 if xbankcode=space(02)
   fb="BANK CODE CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (@23,(80-len(fb))/2 \text{ say fb})
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 use
 use bank
 index on bankcode to bankcode
```

```
seek xbankcode
    if .not. found()
      fb="INVALID BANK CODE, Press Any Key To Retry"
      @23,02 clea to 23,77
      @23,(80-len(fb))/2 say fb
      set cons off
      wait " "
      @23,02 clea to 23,77
      loop
    endif
    xbankname=bankname
    xshortname=shortname
    @13,37 get xbankname pict "@!"
    @13,70 get xshortname pict "@!"
    clea gets
    exit
   enddo
*----- Generating Applicant Account/Certificate Number------
 if xshortname="FBN"
     use FBN
     index on fbn no to fbn no
     go bott
     xfbn no=fbn no
   if xfbn no=0
     xfbn no=1
   else
     xfbn_no=xfbn_no+1
   endif
    xbank no=xfbn no
 endif
 if xshortname="UBN"
     use ubn
     index on ubn_no to ubn_no
     go bott
     xubn_no=ubn_no
   if xubn_no=0
     xubn_no=1
   else
     xubn_no=xubn_no+1
   endif
    xbank_no=xubn_no
 endif
 if xshortname="UBA"
     use uba
     index on uba_no to uba_no
     go bott
     xuba no=uba no
   if xuba no=0
     xuba no=1
   else
```

```
xuba no=xuba no+1
    endif
     xbank no=xuba_no
  endif
  if xshortname="ABN"
     use abn
     index on abn no to abn no
     go bott
     xabn no=abn no
    if xabn no=0
     xabn no=1
    else
     xabn no=xabn no+1
    endif
    xbank no=xabn no
  endif
  if xshortname="GTB"
     use gtb
     index on gtb_no to gtb_no
     go bott
     xgtb no=gtb no
   if xgtb no=0
     xgtb no=1
   else
     xgtb no=xgtb no+1
    endif
     xbank no=xgtb no
  endif
xacctnumber="NG"+"/"+xshortname+"/"+"99"+"/"+ltrim(str(xbank_no))+"/"+ltrim(str(xrequestno))
    @15,33 get xacctnumber pict "@!"
    clea gets
  do while .t.
    fb="ENTER LOAN DURATION IN MONTHS"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
    @15,55 get xduration pict "99"
    read
    if xduration=0
      fb="LOAN DURATION CODE CANNOT BE EMPTY, Press Any Key To Retry"
      @23,02 clea to 23,77
      (a)23,(80-len(fb))/2 say fb
      set cons off
      wait " "
      @23,02 clea to 23,77
      loop
    endif
    exit
  enddo
  do while .t.
```

```
fb="ENTER PROJECT CATEGORY CODE"
 @23.02 clea to 23.77
 @23,(80-len(fb))/2 say fb
 @17.33 get xcat code pict "@!"
 read
 if xcat code=space(02)
   fb="PROJECT CATEGORY CODE CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (23.(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 use
 use category
 index on cat code to cat code
 seek xcat code
 if .not. found()
   fb="INVALID PROJECT CATEGORY CODE, Press Any Key To Retry"
   @23,02 clea to 23,77
   (a)23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 xcat_desc=cat_desc
 @17,37 get xcat_desc pict "@!"
 clea gets
exit
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED"
 @23,02 clea to 23,77
 (@23,(80-len(fb))/2 \text{ say fb})
 @19,33 get xamt_wanted pict "999,999,999.99"
 read
 if xamt wanted=0.00
   fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
```

```
fb="ENTER AMOUNT APPROVED"
  @23,02 clea to 23,77
  @23,(80-len(fb))/2 say fb
 @19,50 get xamt given pict "999,999,999,999"
 read
 if xamt given=0.00
   fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="REMARKS : [A] => Approved or [N] => Not Approved"
 @23,02 clea to 23,77
 (23,(80-len(fb))/2 say fb
 @19,69 get xremark pict "!"
 read
 if xremark="A" .or. xremark="N"
   exit
 endif
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED BY 1st MEMBER"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @09,48 get xamt want1 pict "9,999,999.99"
 read
 if xamt_want1=0.00
   fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (a)23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT APPROVED TO 1st MEMBER"
 @23,02 clea to 23,77
 (a)23,(80-len(fb))/2 say fb
 @09,65 get xamt_paid1 pict "9,999,999.99"
 read
 if xamt paid1=0.00
```

```
fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
 *----- 2nd Member -----
 xcode2=xcode1+1
 @11,07 get xcode2 pict "9"
 clea gets
do while .t.
 fb="ENTER 2nd MEMBER NAME"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @11,17 get xname2 pict "@!"
 read
 if xname2=space(20)
   fb="2nd MEMBER NAME CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED BY 2nd MEMBER"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @11,48 get xamt want2 pict "9,999,999.99"
 read
 if xamt want2=0.00
   fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23.77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT APPROVED TO 2nd MEMBER"
```

```
@23,02 clea to 23,77
 (a)23,(80-len(fb))/2 say fb
 @11,65 get xamt_paid2 pict "9,999,999.99"
 read
 if xamt_paid2=0.00
   fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (a)23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
*----- 3rd Member ------
xcode3=xcode2+1
 @13,07 get xcode3 pict "9"
 clea gets
do while .t.
 fb="ENTER 3rd MEMBER NAME"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @13,17 get xname3 pict "@!"
 read
 if xname3=space(20)
   fb="3rd MEMBER NAME CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED BY 3rd MEMBER"
 @23,02 clea to 23,77
 (a)23,(80-len(fb))/2 say fb
 @13,48 get xamt want3 pict "9,999,999.99"
 read
 if xamt want3=0.00
   fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
```

```
endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT APPROVED TO 3rd MEMBER"
 @23,02 clea to 23,77
 (a)23,(80-len(fb))/2 say fb
 @13,65 get xamt paid3 pict "9,999,999.99"
 read
 if xamt paid3=0.00
   fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
*----- 4th Member -----
xcode4=xcode3+1
 @15,07 get xcode4 pict "9"
 clea gets
do while .t.
 fb="ENTER 4th MEMBER NAME"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @15,17 get xname4 pict "@!"
 read
 if xnamc4=space(20)
   fb="4th MEMBER NAME CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   @23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED BY 4th MEMBER"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @15,48 get xamt want4 pict "9,999,999.99"
 read
 if xamt want4=0.00
   fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
```

```
@23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23.02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT APPROVED TO 4th MEMBER"
 @23.02 clea to 23.77
 (a)23,(80-len(fb))/2 say fb
 @15,65 get xamt paid4 pict "9,999,999.99"
 read
 if xamt paid4=0.00
   fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
                .
enddo
*----- 5nd Member -----
 xcode5=xcode4+1
 @17,07 get xcode5 pict "9"
 clea gets
do while .t.
 fb="ENTER 5th MEMBER NAME"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
 @17,17 get xname5 pict "@!"
 read
 if xname5=space(20)
   fb="5th MEMBER NAME CANNOT BE EMPTY, Press Any Key To Retry"
   @23,02 clea to 23,77
   (a)23,(80-len(fb))/2 say fb
   set cons off
   wait " "
   @23,02 clea to 23,77
   loop
 endif
 exit
enddo
do while .t.
 fb="ENTER AMOUNT REQUESTED BY 5th MEMBER"
 @23,02 clea to 23,77
 @23,(80-len(fb))/2 say fb
```

```
@17,48 get xamt_want5 pict "9,999,999.99"
    read
    if xamt want5=0.00
     fb="AMOUNT REQUESTED CANNOT BE EMPTY, Press Any Key To Retry"
     @23.02 clea to 23,77
     @23,(80-len(fb))/2 say fb
     set cons off
     wait " "
     @23,02 clea to 23,77
     loop
    endif
    exit
   enddo
  do while .t.
    fb="ENTER AMOUNT APPROVED TO 5th MEMBER"
    @23,02 clea to 23,77
    (@23,(80-len(fb))/2 say fb
    @17,65 get xamt paid5 pict "9,999,999.99"
    read
    if xamt paid5=0.00
     fb="AMOUNT APPROVED CANNOT BE EMPTY, Press Any Key To Retry"
     @23,02 clea to 23,77
     @23,(80-len(fb))/2 say fb
     set cons off
     wait " "
     @23,02 clea to 23,77
     loop
    endif
    exit
   enddo
   totalpaid=(xamt paid1+xamt paid2+xamt paid3+xamt paid4+xamt paid5)
   @19,57 say "TOTAL :"get totalpaid pict "9,999,999.99" colo "+w/r*"
   clea gets
   if totalpaid xamt given
    fb="AMOUNT PAID TO MEMBERS CANNOT EXCEED TOTAL AMOUNT APPROVI
Press Any Key To Retry"
    @23,02 clea to 23,77
    @23,(80-len(fb))/2 say fb
    set cons off
    wait " "
    @23,02 clea to 23,77
    loop
   endif
   exit
 enddo
return
```

```
proc loaner &&----REP1 is Converted to Loaner.prg
```

```
@21,08 clea to 23,71
 @21,08 to 23,71
                           [P]rinter"
 outer="[S]creen
 @22,(80-len(outer))/2 say outer
 x=0
 do while x=0
   x=inkey()
  if upper (chr(x)) $ "SP"
    exit
   endif
    x=0
 enddo
if upper (chr(x)) $ "S" && ------ Generating Screen Printng------
 use type
 index on loancode to loancode
 go top
 @21,08 clea to 23,71
 @21,08 to 23,71
 outer="[P]rinting
                          [C]ancel"
 (a)22,(80-len(outer))/2 say outer
 x=0
 do while x=0
   x=inkey()
   if upper (chr(x)) $ "PC"
    exit
  endif
    x=0
 enddo
if upper (chr(x)) $ "C"
  clear
  close all
  return
endif
clea
    set device to screen
    fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
    souter="LIST OF ALL AVAILABLE LOAN TYPE"
    @01,(80-LEN(fouter))/2 say fouter
    @02,(80-LEN(souter))/2 say souter
    @04,01 say "S/NO"
    @04,07 say "REG. DATE"
   @04,20 say "REG. TIME"
    @04,33 say "LOAN CODE"
    @04,45 say "LOAN DESCRIPTION"
    @05,01 say repl ("=",77)
    xpage=1
    row=06
    mrow=62
```

```
xsno=1
      go top
      xregdate=ctod(" / / ")
      xregtime=space(08)
      xloancode=space(02)
      xloandesc=space(30)
    do while .not. eof()
      if row>mrow
        eiect
       clear
       xpage=xpage+1
       row=08
       set device to SCREEN
         fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)
         souter="LIST OF ALL AVAILABLE LOAN TYPE"
        @01,(80-LEN(fouter))/2 say fouter
         @02,(80-LEN(souter))/2 say souter
         @04,01 say "S/NO"
         @04,07 say "REG. DATE"
        @04,20 say "REG. TIME"
        @04,33 say "LOAN CODE"
        @04,45 say "LOAN DESCRIPTION"
        (i)05,01 say repl ("=",77)
      endif
        xregdate=regdate
        xregtime=regtime
        xloancode=loancode
        xloandesc=loandesc
                             pict "999"
        @row,01 say xsno
        @row,07 say xregdate pict "99/99/99"
        @row,20 say xregtime pict "99:99:99"
        @row,33 say xloancode pict "@!"
        @row,45 say xloandesc pict "@!"
        row=row+2
        xsno=xsno+1
    skip
    enddo
    use
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue..."
    @22,02 clea to 23,77
    @22,05 say "MESSAGE" color "w+*/r"
    @23,(80-len(jobend))/2 say jobend
    set cons off
    wait " "
    set cons on
    clea
    return
endif
if upper (chr(x)) $ "P" && ------ Generating Screen Printng------
```

```
use type
 index on loancode to loancode
 go top
 @21,08 clea to 23,71
 @21,08 to 23,71
                          [C]ancel"
 outer="[P]rinting
 @22,(80-len(outer))/2 say outer
 x=0
 do while x=0
   x=inkey()
  if upper (chr(x)) $ "PC"
    exit
  endif
   x=0
 enddo
if upper (chr(x)) $ "C"
  clear
  close all
  return
endif
clea
    set device to print
    fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
    souter="LIST OF ALL AVAILABLE LOAN TYPE"
    @01,(80-LEN(fouter))/2 say fouter
    @02,(80-LEN(souter))/2 say souter
    @04,01 say "S/NO"
   @04,07 say "REG. DATE"
    @04,20 say "REG. TIME"
    @04,33 say "LOAN CODE"
   @04,45 say "LOAN DESCRIPTION"
   (a)05,01 say repl ("=",77)
   xpage=1
   row=06
   mrow=62
   xsno=1
   go top
   xregdate=ctod(" / / ")
   xregtime=space(08)
   xloancode=space(02)
   xloandesc=space(30)
  do while .not. eof()
   if row>mrow
     eject
     clear
     xpage=xpage+1
     row=08
     set device to print
```

```
fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS
        souter="LIST OF ALL AVAILABLE LOAN TYPE"
        @01.(80-LEN(fouter))/2 say fouter
        @02,(80-LEN(souter))/2 say souter
        @04,01 say "S/NO"
        @04,07 say "REG. DATE"
        @04,20 say "REG. TIME"
        @04,33 say "LOAN CODE"
        @04,45 say "LOAN DESCRIPTION"
        @05,01 say repl ("=",77)
     endif
        xregdate=regdate
        xregtime=regtime
        xloancode=loancode
        xloandesc=loandesc
                            pict "999"
        @row.01 say xsno
        @row,07 say xregdate pict "99/99/99"
        @row,20 say xregtime pict "99:99:99"
        @row,33 say xloancode pict "@!"
        @row,45 say xloandesc pict "@!"
        row=row+2
        xsno=xsno+1
    skip
    enddo
    use
    eject
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue..."
    @22,02 clea to 23,77
    @22,05 say "MESSAGE" color "w+*/r"
    @23,(80-len(jobend))/2 say jobend
    set cons off
    wait " "
    set cons on
    clea
    return
endif
*-----PROC Banker------
proc banker
   @21,08 clea to 23,71
   @21,08 to 23,71
                           [P]rinter"
   outer="[S]creen
   @22,(80-len(outer))/2 say outer
   x=0
   do while x=0
    x=inkey()
    if upper (chr(x)) $ "SP"
      exit
    endif
     x=0
```

```
enddo
if upper (chr(x)) $ "S" && ------ Generating Screen Printng------
 use bank
 index on bankcode to bankcode
 go top
 @21,08 clea to 23,71
 @21,08 to 23,71
                          [C]ancel"
 outer="[P]rinting
 @22.(80-len(outer))/2 say outer
 x=0
 do while x=0
   x=inkey()
  if upper (chr(x)) $ "PC"
    exit
   endif
    x=0
 enddo
if upper (chr(x)) $ "C"
  clear
  close all
  return
endif
clea
    set device to screen
    fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
    souter="LIST OF REGISTERED BANK FOR CASH TRANSFER"
    @01,(80-LEN(fouter))/2 say fouter
    @02,(80-LEN(souter))/2 say souter
    @04,01 say "S/NO"
    @04,07 say "REG. DATE"
    @04,20 say "REG. TIME"
    @04,33 say "BANK CODE"
    @04,50 say "BANK NAME"
    @04,70 say "SHORTNAME"
    @05,01 say repl ("=",77)
    xpage=1
    row=06
    mrow=62
    xsno=1
   go top
    xregdate=ctod(" / / ")
    xregtime=space(08)
    xbankcode=space(02)
    xbankname=space(30)
    xshortname=space(03)
  do while .not. eof()
    if row>mrow
```

```
eject
        clear
        xpage=xpage+1
        row=08
        set device to SCREEN
         fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)
         souter="LIST OF REGISTERED BANK FOR CASH TRANSFER"
         @01.(80-LEN(fouter))/2 say fouter
         @02,(80-LEN(souter))/2 say souter
         @04.01 say "S/NO"
         @04,07 say "REG. DATE"
         @04,20 say "REG. TIME"
         @04,33 say "BANK CODE"
         @04,50 say "BANK NAME"
         @04,70 say "SHORTNAME"
         @05,01 say repl ("=",77)
      endif
         xregdate=regdate
         xregtime=regtime
         xbankcode=bankcode
         xbankname=bankname
         xshortname=shortname
                             pict "999"
         @row,01 say xsno
         @row,07 say xregdate pict "99/99/99"
         @row,20 say xregtime pict "99:99:99"
         @row,35 say xbankcode pict "@!"
         @row,42 say xbankname pict "@!"
         @row,72 say xshortname pict "@!"
        row=row+2
         xsno=xsno+1
    skip
    enddo
    use
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue ... "
    @22,02 clea to 23,77
    @22,05 say "MESSAGE" color "w+*/r"
    @23,(80-len(jobend))/2 say jobend
    set cons off
    wait " "
    set cons on
    clea
    return
endif
  if upper (chr(x)) $ "P" && ------ Generating Screen Printng------
   use bank
   index on bankcode to bankcode
   go top
   @21,08 clea to 23,71
```

```
@21.08 to 23,71
                         [C]ancel"
 outer="[P]rinting
 @22,(80-len(outer))/2 say outer
 x=0
 do while x=0
  x=inkey()
  if upper (chr(x)) $ "PC"
    exit
  endif
   x=0
 enddo
if upper (chr(x)) $ "C"
  clear
  close all
  return
endif
clea
   set device to print
   fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
   souter="LIST OF REGISTERED BANK FOR CASH TRANSFER"
   @01,(80-LEN(fouter))/2 say fouter
   @02,(80-LEN(souter))/2 say souter
   @04,01 say "S/NO"
   @04,07 say "REG. DATE"
   @04,20 say "REG. TIME"
   @04,33 say "BANK CODE"
   @04,50 say "BANK NAME"
   @04,70 say "SHORTNAME"
   (a)05,01 say repl ("=",77)
   xpage=1
   row=06
   mrow=62
   xsno=1
   go top
   xregdate=ctod(" / / ")
   xregtime=space(08)
   xbankcode=space(02)
   xbankname=space(30)
   xshortname=space(03)
 do while .not. eof()
   if row>mrow
    eject
    clear
    xpage=xpage+1
    row=08
    set device to print
      fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
      souter="LIST OF REGISTERED BANK FOR CASH TRANSFER"
      @01,(80-LEN(fouter))/2 say fouter
```

```
@02,(80-LEN(souter))/2 say souter
        @04,01 say "S/NO"
        @04,07 say "REG. DATE"
        @04,20 say "REG. TIME"
        @04,33 say "BANK CODE"
        @04,50 say "BANK NAME"
        @04,70 say "SHORTNAME"
        @05,01 say repl ("=",77)
     endif
        xregdate=regdate
        xregtime=regtime
        xbankcode=bankcode
        xbankname=bankname
        xshortname=shortname
                            pict "999"
        @row,01 say xsno
        @row,07 say xregdate pict "99/99/99"
        @row,20 say xregtime pict "99:99:99"
        @row,35 say xbankcode pict "@!"
        @row,42 say xbankname pict "@!"
        @row,72 say xshortname pict "@!"
        row=row+2
        xsno=xsno+1
    skip
    enddo
    use
    eject
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue..."
    @22,02 clea to 23,77
    @22,05 say "MESSAGE" color "w+*/r"
    @23,(80-len(jobend))/2 say jobend
    set cons off
    wait " "
    set cons on
    clea
    return
endif
proc REP2
   @21,08 clea to 23,71
   @21,08 to 23,71
   outer="[S]creen
                           [P]rinter"
   (@22,(80-len(outer))/2 say outer
   x=0
   do while x=0
     x=inkey()
    if upper (chr(x)) $ "SP"
      exit
    endif
     x=0
   enddo
```

if upper (chr(x)) \$ "S" && ------ Generating Screen Printng------

```
use request
 index on requestno to requestno
 go top
 @21,08 clea to 23,71
 @21,08 to 23,71
 outer="[P]rinting
                         [C]ancel"
 @22,(80-len(outer))/2 say outer
 x=0
 do while x=0
   x=inkey()
  if upper (chr(x)) $ "PC"
    exit
  endif
   x=0
 enddo
if upper (chr(x)) $ "C"
  clear
  close all
  return
endif
clea
   set device to screen
   fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
   souter="REPORT ON LOAN REPAYMENT AND THEIR STATUS"
   @01,(80-LEN(fouter))/2 say fouter
   @02,(80-LEN(souter))/2 say souter
   @04,01 say "S/NO"
   @04,07 say "REG. DATE"
   @04,20 say "REG. TIME"
   @04,33 say "R/No."
   @04,40 say "TOTAL APPROVED"
   @04,57 say "TOTAL PAID"
   @04,69 say "BALANCE"
   @05,01 say repl ("=",77)
   xpage=1
   row=06
   mrow=62
   xsno=1
   go top
  do while .not. eof()
   if row>mrow
     *eject
     clear
     xpage=xpage+1
     row=06
     set device to SCREEN
      fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS
```

```
souter="LIST OF ALL AVAILABLE LOAN TYPE"
        @01,(80-LEN(fouter))/2 say fouter
        @02,(80-LEN(souter))/2 say souter
        @04,01 say "S/NO"
        @04,07 say "REG. DATE"
        @04,20 say "REG. TIME"
        @04,33 say "R/No."
        @04,40 say "TOTAL APPROVED"
        @04,57 say "TOTAL PAID"
        @04,69 say "TOTAL BALANCE"
        @05,01 say repl ("=",77)
      endif
        xrcgdate=regdate
        xregtime=regtime
        xrequestno=requestno
        xamt given=amt given
        xpay todate=pay todate
        xbalance=balance
        @row.01 say xsno
                            pict "999"
        @row,07 say xregdate pict "99/99/99"
        @row,20 say xregtime pict "99:99:99"
        @row,31 say xrequestno pict "9999"
        @row,35 say xamt given pict "99,999,999.99"
        @row,55 say xpay todate pict "9,999,999.99"
        @row,67 say xbalance pict "9,999,999,999"
        row=row+2
        xsno=xsno+1
    skip
    enddo
    use
    *eiect
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue..."
    @22,02 clea to 23,77
    @22,05 say "MESSAGE" color "w+*/r"
    (a)23,(80-len(jobend))/2 say jobend
    set cons off
    wait " "
    set cons on
    clea
    return
endif
proc REP3
   @21,08 clea to 23,71
   @21,08 to 23,71
   outer="[S]creen
                           [P]rinter"
   @22,(80-len(outer))/2 say outer
   x=0
   do while x=0
```

```
x=inkey()
   if upper (chr(x)) $ "SPC"
    exit
   endif
    x=0
  enddo
if upper (chr(x)) $ "S" && ----- Generating Screen Printng------
 use category
 index on cat code to cat code
 go top
 @21,08 clea to 23,71
 @21,08 to 23,71
 outer="[P]rinting
                          [C]ancel"
 (a)22,(80-len(outer))/2 say outer
 x=0
 do while x=0
   x=inkey()
  if upper (chr(x)) $ "PC"
    exit
  endif
   x=0
 enddo
if upper (chr(x)) $ "C"
  clear
  close all
  return
endif
clea
    set device to screen
    fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
    souter="LIST OF ALL AVAILABLE PROJECT CATEGORIES"
    lives="10 =>Live Stock, 20 =>Fisheries, 30 =>Mixed Farming, 40 =>Food Crops,"
    live=" 50 => Cash Crops, 60 => Others"
    @01,(80-LEN(fouter))/2 say fouter
    @02,(80-LEN(souter))/2 say souter
    @21,(80-LEN(lives))/2 say lives
    (@22,(80-LEN(live))/2 say live
    @04,01 say "S/NO"
    @04,07 say "REG. DATE"
    @04,20 say "REG. TIME"
    @04,33 say "CATEGORY CODE"
    @04,50 say "PROJECT CATEGORY"
    @05.01 say repl ("=",77)
    xpage=1
    row=06
    mrow=20
    xsno=1
    go top
```

```
xregdate=ctod(" / / ")
      xregtime=space(08)
      xcat code=space(02)
      xcat desc=space(15)
    do while .not. cof()
      if row>mrow
       jobend="Press Any Key To Continue.....!!!"
        @22,02 clea to 23,77
        @22,05 say "MESSAGE" color "w+*/r"
        live=" 50 => Cash Crops, 60 => Others"
        (\hat{u}_{22},(80-\text{LEN}(\text{live}))/2 \text{ say live})
        (23,(80-len(jobend))/2 say jobend
       set cons off
       wait " "
       set cons on
       clea
       xpage=xpage+1
       row=06
       set device to SCREEN
         fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACG
        souter="LIST OF ALL AVAILABLE PROJECT CATEGORIES"
         lives="10=>Live Stock, 20=>Fisheries, 30=>Mixed Farming, 40=>Food Crops, 50=> Cas
Crops, (60) => Others"
        live=" 50 => Cash Crops, 60 => Others"
         @01.(80-LEN(fouter))/2 say fouter
         @02,(80-LEN(souter))/2 say souter
         (a)21,(80-len(lives))/2 say lives
         (@22,(80-LEN(live))/2 say live
         @04,01 say "S/NO"
         @04,07 say "REG. DATE"
         @04,20 say "REG. TIME"
         @04,33 say "CATEGORY CODE"
         @04,50 say "PROJECT CATEGORY"
        @05,01 say repl ("=",77)
      endif
        xregdate=regdate
        xregtime=regtime
         xcat code=cat code
         xcat desc=cat desc
         @row,01 say xsno
                              pict "999"
         @row,07 say xregdate pict "99/99/99"
         @row,20 say xregtime pict "99:99:99"
         @row,38 say xcat code pict "@!"
         @row,52 say xcat desc pict "@!"
         row=row+2
         xsno=xsno+1
    skip
    enddo
    use
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue..."
```

```
@22,02 clca to 23,77
     @22,05 say "MESSAGE" color "w+*/r"
     @23.(80-len(jobend))/2 say jobend
     set cons off
     wait " "
     set cons on
    clea
    return
endif
  if upper (chr(x)) $ "P" && ----- Generating Screen Printng------
    use category
    index on cat_code to cat_code
    go top
    @21,08 clea to 23,71
    @21,08 to 23,71
    outer="[P]rinting
                            [C]ancel"
    @22,(80-len(outer))/2 say outer
    x=0
    do while x=0
     x=inkey()
     if upper (chr(x)) $ "PC"
      exit
     endif
      x=0
    enddo
  if upper (chr(x)) $ "C"
    clear
    close all
    return
  endif
  clea
      set device to print
      fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)"
      souter="LIST OF ALL AVAILABLE PROJECT CATEGORIES"
      lives="10=>Live Stock, 20=>Fisheries, 30=>Mixed Farming, 40=>Food Crops, 50=> Cash
Crops, (60) => Others"
      live=" 50 => Cash Crops, 60 => Others"
      @01,(80-LEN(fouter))/2 say fouter
      @02,(80-LEN(souter))/2 say souter
      (a)21,(80-len(lives))/2 say lives
      (a)22,(80-LEN(live))/2 say live
      @04,01 say "S/NO"
      @04,07 say "REG. DATE"
      @04,20 say "REG. TIME"
      @04,33 say "CATEGORY CODE"
      @04,50 say "PROJECT CATEGORY"
      @05,01 say repl ("=",77)
      xpage=1
```

```
row=06
      mrow=62
      xsno=1
      go top
      xregdate=ctod(" / / ")
      xregtime=space(08)
      xcat code=space(02)
      xcat desc=space(15)
    do while .not. eof()
      if row>mrow
       eject
       clear
       xpage=xpage+1
       row=08
       set device to print
        fouter="THE IMPACT OF AGRICULTURAL CREDIT GUARANTEE SCHEME (ACGS)
        souter="LIST OF ALL AVAILABLE PROJECT CATEGORIES"
        lives="10=>Live Stock, 20=>Fisheries, 30=>Mixed Farming, 40=>Food Crops, 50=> Cash
Crops, (60) \Rightarrow Others"
        live=" 50 => Cash Crops, 60 => Others"
        @01,(80-LEN(fouter))/2 say fouter
        @02,(80-LEN(souter))/2 say souter
        (a)21,(80-len(lives))/2 say lives
        (22,(80-LEN(live))/2 say live
        @04.01 say "S/NO"
        @04,07 say "REG. DATE"
        @04,20 say "REG. TIME"
        @04,33 say "CATEGORY CODE"
        @04,50 say "PROJECT CATEGORY"
        (a)05,01 say repl ("=",77)
     endif
        xregdate=regdate
        xregtime=regtime
        xcat code=cat code
        xcat desc=cat desc
        @row,01 say xsno
                             pict "999"
        @row,07 say xregdate pict "99/99/99"
        @row,20 say xregtime pict "99:99:99"
        @row,38 say xcat code pict "@!"
        @row,52 say xcat desc pict "@!"
        row=row+2
        xsno=xsno+1
    skip
    enddo
    use
    eject
    jobend="ACGS HAS COMPLETED PRINTING JOB, Press Any Key To Continue ... "
    @22,02 clea to 23,77
    @22,05 say "MESSAGE" color "w+*/r"
```

	@23,(80-len(jobend))/2 say jobend
	set cons off
	wait " "
	set cons on
	clea
	return
endif	ſ
*	End Of Program

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