

COMPUTERISATION OF NITEL PHONE CARD SALES

RECORD SYSTEM

A CASE STUDY OF NITEL MINNA, NIGER STATE.

Comments
Acknowledgement Prof
References
alphabetically

OYEDIRAN OPEYEMI
PGD/MCS/99/2000/923

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA.

SEPTEMBER, 2001

**COMPUTERISATION OF NITEL PHONE CARD SALES
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A CASE STUDY OF NITEL MINNA, NIGER STATE.

BY

OYEDIRAN OPEYEMI
PGD/MCS/99/2000/923

**A PROJCT SUBMITTED TO THE DEPARTMENT OF MATHEMATICS AND
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 (PGD).**

SEPTEMBER, 2001

CERTIFICATION

This is to certify that this project is carried out by **OYEDIRAN OPEYEMI (PGD/MCS/99/2000/923)** IN PARTIAL FULFILMENT FOR the award of postgraduate diploma (PGD) in Computer Science, Federal University of Technology, Minna.

Dr S.A REJU
(PROJECT SUPERVISOR)

DATE

Dr S.A REJU
(HEAD OF DEPARTMENT)

DATE

EXTERNAL EXAMINER

DATE

ACKNOWLEDGEMENT

I acknowledge my saviour Jesus Christ, for sparing my life to complete this programme.

I reverence my creator God Almighty; your Love for me is unique.

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ABSTRACT

This project is on Computerization of Nitel phone card sales record system. The register for sales record system was analysed and the Components identified as suitable for computerization were considered. Flowcharts for these processes are developed.

A programe aimed at ensuring proper registration of customers, sales record on daily basis and bank transaction procedure is developed. The programe is tested and found to be error free.

CHAPTER THREE

3.0 COMPUTERISED PHONE CARD SYSTEM DESIGN	19
3.1 Programming Language Features	19
3.2 System design	20
3.3 Algorithm of the program	25
3.4 Existing registers for sales record keeping	29

CHAPTER FOUR

4.0 IMPLEMETATION OF THE PHONE CARD SYSTEM	30
4.1 System Installation	30
4.2 Testing	32
4.3 system conversion	32

CHAPTER FIVE

5.0 SYSTEMS DOCUMENTATION AND CONCLUSION	34
5.1 Documentation	34
5.2 Recommendation	34
5.3 Conclusion	36
References	37

Appendix (program code)

CHAPTER ONE

1.0 INTRODUCTION TO NITEL PHONE CARD SYSTEM

1.1 INTRODUCTION

The card phone system was introduced in the wake of the closure of private Business office nationwide. That closure was necessitated by huge loss of revenue accruable to Nitel coupled with out payment in hard currency to foreign Administrators on traffic generated by fake business office.

These offices were subsequently to be replaced by payphones, which now offer convenient services to members of the public and the same time enable Nitel collect payments for her services.

Also before the introduction of phone card system was the coin box system, which requires a coin to be dropped before a call can be made. This system is programmed such that a coin dropped has the specific time it can use and then another coin is used.

This system was not too good as NITEL has to carry about a lot of coins as daily collection only to also discover that iron in coin form are also being used. Phone card system can therefore be referred to as an advanced stage of the coin box system, which is more effective and easier for NITEL to obtain its revenue.

cover book as sales register. This register is divided into five sections with one section for each of the existing four denominations of cards. The fifth section of the notebook should further be divided into two sub-sections, one section for cards received and the other for daily sales summary. The register should be used as follows.

- a. Record any card received by quantity and unit type.
- b. Record individual card sales in the appropriate card unit type section and show all the details of the transaction. These include serial number(s) of the card(s) sold, date and name and address of the purchaser.
- c. The sales executive should conclude his shift's transactions by underling the last activity for the shift and recording the day's summaries for quantities and Naira values for each type of card.
- d. The total Naira value of all the cards sold should be entered in the daily sales summary section.
- e. Record the shift's total quantity of each type of card sold in the station log.
- f. Record the balance of unsold cards in the section for card receipts to be signed for by officer collecting.

1.2 EXCHANGE AREA PAYPHONE MANAGER (EAPM)

The EAPM has direct responsibility for ensuring amongst other things that:

- a. All the payphone centers under him are adequately supplied with cards.
- b. All monies collected from sales of cards are properly recorded, accounted

for and banked. To help EAPM achieve this, the following documents should be available at his office.

i. Daily Sales Register

This should be a hard cover notebook maintained by the Roving Accounts Officer into which all collections from each of the centers in the area are recorded. This register should carry only the signatures of the sales executives of the payphone centers making the sales. The day's takings should be summarized for each location and the whole area.

(ii) Bank Register

This should be a hard cover note book in which the details on the PIS including the PIS number should be entered. Upon return from the bank the accounts Officer should present the bank signed customer copy of the PIS and the bank register to the payphone Manager for inspection and confirmation.

(iii) Daily Card Analysis Register

This should be a hard cover note book in which all the summaries for cards sold in all the centers are individually entered and the total for the area summed up. It is from this register that extracts are made for reporting to the territorial office using the same format as that of the register.

3. TERRITORIAL PAYPHONE MANAGER (TPM)

The TPM is responsible for all statistical returns on card phones in the territory. These include daily sales and daily analysis of cards sold.

(i) **Daily Cash Sales:** The total sales from each exchange areas, for the day should be collected and entered in the monthly summary form.

(ii) **Daily Card Sales:** This is similar to the above and has the same treatment.

A typical example of exchange area card analysis, exchange area daily bank transaction, daily payphone revenue summary and exchange area daily cash collection forms are presented in chapter three.

1.3 HISTORY OF NITEL

Before 1985 there were two Telecommunication outfits, which are Nigeria External Telecommunication (NET) and Telecommunication arm of post and Telecommunication Department (P&T) but in 1985 these two industries were merged together to form NITEL

NITEL was therefore born IST Jan.1985 with about 27,000 people. Post and Telecommunication was originated from postal division, which is known as NIPOST.

It was established in 1951 as an arm of the British Post Office, its primary aim was of facilitating correspondence and remittance between the personnel of both British armed force and consulate in Lagos and Benin, Delta areas on one side and they have government and the people of Britain on the other side.

The Engineering arm of the department was to cater for internal telecommunication services within the country thus, by decree No 22 of 1966, the department of Post and Telecommunication was responsible for the National Network Operation which a British Company called cable and

wireless Limited was responsible for the provision and operation of International Telecommunication.

In December, 1962 Nigeria External Telecommunication Limited was incorporate to replace the British owned Company (cable and wireless Limited) with share capital of four million naira (4, 000,000) as a partnership between Nigeria Government which held 51% of the shares and cable wireless Limited with 49%. In September 1972, Federal Government of Nigeria purchased all the shares and by 1st October, 1972 NET became fully around by the Federal Government.

The main function of NET was to serve as Nigeria Gateway to the outside world. Thus, the former NET was born in January 1963, as a Limited Liability Company to cater for external communication. Finally, in 1985, the defunct NET and the Telecommunication arm of the defunct P&T nerve merged into one corporate organization known as **NIGERIA TELECOMMUNICATION LIMITED (NITEL)**.

PURPOSE OF NITEL

The purpose of NITEL existence is to provide development and maintain efficient and effective means of communication with accurate speed.

MISSION

To maintain leadership position by continuously improving services to meet customers needs and expectation.

VALVES

- (I) NITEL customers are the source of her straight
- (II) NITEL services are the mirror through which the public views her.
- (III) NITEL profit is regarded as the vote of confidence in her performance.
- (IV) For growth, Management must give intelligent and capable leadership.

Guiding principles

- (I) Committed with /to a total quality culture of input.
- (ii) Customers satisfaction forms the bedrock of her business.
- (iii) Continuous improvement
- (iv) Employee investment
- (v) Integrity

1.4 THE ORGANISATIONAL STRUCTURE OF NITEL

NITEL is headed by a Managing Director whose main duty is the general co-ordination of all Telecommunications services and making recommendation and reports to the Minister of communication of the country. The Managing Director works along with others as shown in the chart below.

MD/ CF – Managing Director / Chief executive

GM – General Manager

GM LDC – General Manager Long Distance Communication

GM PR – General Manager Public Relation

DGM – Deputy General Manager

SM – Senior Manager

ED CA – Executive Director Corporate Administrative

ED ZA – Executive Director Zonal Affairs

ED FI – Executive Director Finance and Investment

ED LDC – Executive Director Long Distance Communication

ED P&O – Executive Director Planning Operators

GM NTN – General Manager National Trunk Network

GM P&D – General Manager Project and Development

GM IS – General Manager Insurance Scheme

GM OPS – General Manager Operations

GM PTMD – General manager Personnel Training & Manpower Development

GM P&S – General Manager Purchasing and Supply

GM ATE – Accommodation Transport and Estate

GM MIH – General Manager Medical Industrial Health

GM CZ – General Manager Central Zone

GM SEZ – General Manager South East Zone

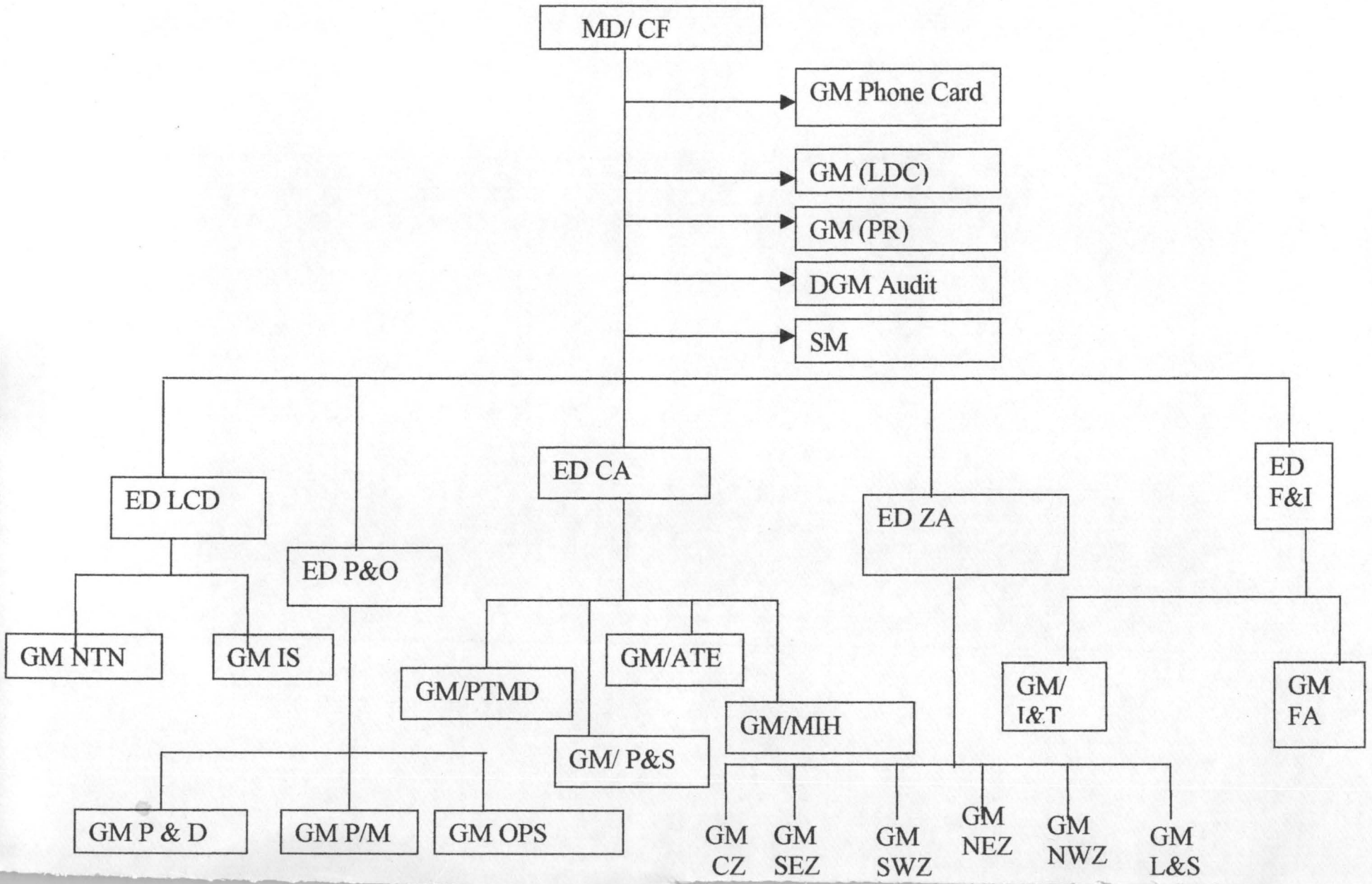
GM SWZ – General Manager South West Zone

GM NEZ - General Manager North East Zone

GM NWZ – General Manager North West Zone

GM L&S – General Manager Legal and Secretarial.

ORGANISATIONAL STRUCTURE OF NITEL



1.5 NITEL SERVICES THROUGH PHONE CARDS

NITEL Headquarters runs the stock and sales of NITEL phone cards. These cards are printed and disposed to Zones by the Headquarters. The zone now distributes to the territories and individual registered vendors who now sell to customers at various selling points. The services through phone cards can be grouped as

- a. **Local calls:** Phone calls communication within the same town.
- b. **National calls:** These are calls made within the country. Such as from one state to another in the Country.
- c. **International calls:** These are calls made outside the country. Such as phoning from Nigeria to any other country in the world.

Phone cards can be use for any call that can also be made on a table phone except that it can neither be locked nor can you receive calls through the use of phone card.

1.6 AIMS AND OBJECTIVES OF THE PROJECT

NITEL as an organization has a purpose for which it was established. The main objective of NITEL is to provide the fastest communication link within one party and the other; this can be on national basis or international basis. NITEL therefore sort out a convenient means for the public of achieving such fast communication means through the use of phone cards. Which permitted any person in possession of a phone cards to make calls both within a state, the country and outside the country.. The aim of this project work therefore include a more proper and appropriate way of keeping sales records

to achieve the following advantages.

- a. There is consistence in record of sales kept
- b. Retrieval of information is made easier
- c. Easy storage of file in the computer system rather than keeping so many registers
- d. Reduce the problem of fraud.

CHAPTER TWO

2.0 INTRODUCTION TO VARIOUS CALLS

2.1 **INTRODUCTION:** The calls that can be made through the use of phone cards are discussed in chapter one. The differences among the three various possible calls are discussed.

a. **State calls:** Calls made within the state in the country are refer to as state calls. Such as from Minna to Bida. As long as the code is the same, the meter is very slow and it takes a longer time say between 2 to 3 minutes to consumer a unit of phone card not as national calls.

b. **National Calls:** Calls made within same country such as within Nigeria is call national call. Making call within a country has to do with distance. The nearer the call state the slower the meter. Calling from Niger State to Kwara State will consume less unit of the phone card than calling from Niger State to Lagos State in this case the unit runs faster.

c. **International Calls:** Calls made from one country to another country is called international calls. Calls within the same continent for example within Africa like Nigeria to Ghana consumers less unit unlike making a call to any European country. Such a caller will need 1000unit phone card to make any reasonable call due to distance, the unit runs very fast.

2.2 REVIEW OF THE OLD SYSTEM

The old system in this project is the use of register to keep sales record of

phone card sales by NITEL. Various registers such as station log book used at each selling points, sales register which contain cards received, individual cash sales, total sales and unsold cards are entered daily at the close of each day.

Daily sales register is another hard cover notebook use by the rowing cashier to record sales from each selling point on a daily basis. Other register kept in the old system of sales of phone card records include bank register, which is a card cover notebook in which the details on the PIS is entered. Daily card analysis register is another register that summaries sales of cards for individual center and total for the area summed up.

Register are kept also for:

- i. Daily cash sales summarized monthly
- ii. Daily card sales also summarized monthly

These are the various registers use and kept by NITEL for proper sales record. This system has its advantages and disadvantages.

2.2.3 ADVANTAGES OF THE OLD SYSTEM

1. It is a cheaper means for NITEL to keep up to date sales record.
2. This system has to be maintained most especially in rural areas where it may not be easy to install computer because of the cost.
3. The rowing cashier is an important person in the system because of its function of taking daily sales collection to the bank.
4. The bank signed customers' copy brought by the rowing cahier from

the bank help the exchange area payphone Manager (EAPM) to make reconciliation at the end of the month.

5. Collection of money and check of registers on daily basis minimize fraud.

2.2.4 DISADVANTAGES OF THE OLD SYSTEM

1. Transfer of register from hand to hand is risky.
2. Most times rotating cashier is a person for each area with the risk of carrying cash on daily basis prone to any form of accident.
3. There are too many registers and cards to be maintained making storage of data to be bulky.
4. There could be lost of vital information in case of accident such as fire in places where registers are kept.
5. Retrieval of information is slower and time consuming.

2.3 OVERVIEW OF THE NEW SYSTEM

The computerization of the register system of sales of phone card is the new system to be viewed. This is a system of inputting all the necessary data to be recorded in registers into the computer system. Such information as cards unit, number of cards sold per unit group i.e. 100unit, 200unit, 400unit and 1000unit. Stock balance for unit card, total collection, date banked and amount-banked daily etc.

Introducing this system will permits:

- a. Easy access to information whenever it is needed.
- b. The use of computer system allow on-lining whereby information

needed about any center could be made easily available to anywhere needed in the organization.

c. The computer system can be program to deduct number of cards sales being made and to add up total amount sold displaying balance at the end of daily transaction.

d. Supervision of selling point activities is easier for the supervising Manager.

e. Fraud activities are greatly minimized since the system is programmed. Despite all these benefits, the role of the rowfing cashier cannot be eliminated since computer cannot transfer the total sales of the day to the bank, the cashier will go to all selling point, collect total sales for each day and deposit in the bank.

Also, it could be very expensive for NITEL to introduce computer system to all centers especially in the rural areas. And more expensive if on-line system is to be introduced. This implies that the register system cannot be totally abandoned. Therefore, it may take NITEL more time to fully computerize its sales of phone card record system.

2.4 BENEFITS OF PHONE CARDS TO THE SOCIETY

The phone card system that was introduced to produce a more convenient means of communication and at the same time a better means for NITEL to obtain her income without being cheated by the public. The phone card system therefore has its benefits to the society which include:

1. Phone card system allows the public to be closer to NITEL.
2. It is more convenient using phone card system since a card obtained at any selling point can be use at any phoning point within the country. Example, a card obtain in Minna can be use confidently in Lagos or any other place in the country.
3. Use of phone card is time saving to the society. Any customers in possession of a phone card can make his/ her call at any time of the day and at any NITEL phoning point.
4. Since the introduction of phone card system, a greater number of the society now have better access to make their calls easily than when business offices were still in operation.
5. Phone card system is another good, easy and interesting means of educating the public on how to use a telephone line, since the phone boxes are explanatory enough.

2.5 BILLING SYSTEM THROUGH PHONE CARDS

The basic problem with assigning payments to any payphone line is that the amount being credited cannot be accurately determined, since there is cross utilization of cards within the area, territory, zone and indeed the country as a whole.

Furthermore, since receipts (cards sales) are always higher than utilization, pay phone lines will always have a credit balance which will be accumulating.

This will not only mask fraud in any audit exercise but will also falsely reduce the outstanding debt stock of the company. The system will be very

cumbersome, where large numbers of pay phone lines are involved and generally more difficult to monitor and control. To facilitate monitoring, analysis, and reporting the following procedures are to be followed.

1. All payphone lined in an exchange area is recorded as single multiple accounts at the business office.
2. All cards sold at the call offices are recorded and paid into the bank on one pay-in-slip (PIS) on daily basis.
3. At the end of the month the territorial payphones Manager collects the MIS summary bills and the printout from the PMS for all the exchange areas in his territory for collation and analysis.
4. The MIS bill and PMS printout are compare for each individual payphone line and where the MIS charges are found to be lower than the PMS charges, a credit adjustment to remove the current charges of the MIS is recommended to the TM.
5. Where the recommendation is acceptable, the TM should approve the credit adjustment and advice the MIS in the usual manner, otherwise he should direct for immediate investigation.
6. The result of the analysis should be tabulated and forward to the GM (PP) through the Zonal General Manager for vetting.

The billing of payphone services before interconnecting agreement can be categorized into:

- a. NITEL payphone lines
- b. Private operator payphone lines.

NITEL PAYPHONE LINES: This has an account code by which it was recognized, this unique identity made it possible for special reports to be produced for them. Which include:

- i. Monthly report on consumptions and balances on NITEL payphone lines
- ii. Payment analysis report which shows collections of payphone

NITEL cards phone lines also enjoy free tax (VAT) like other NITEL services lines

PRIVATE OPERATORS PAYPHONE LINES:

There was no unique identification of privately owned payphone lines and so they were treated as normal subscriber lines.

Billing of payphone services with the interconnecting agreement has the following procedures for identifying and billing payphone services.

- (1) 15 % discount on all Traffic charges on public payphones
- (2) Group code 60xxx for payphones with 60000 for NITEL
- (3) The procedure should be applied to NITEL lines (payphones) immediately along with all PTO'S that have signed the new agreement.
- (4) The effective date should be the next billing circle following the date of signature of the new agreement.

CHAPTER THREE

3.0 COMPUTERISED PHONE CARD SYSTEM DESIGN

3.1 PROGRAMMING LANGUAGE FEATURES

3.1.1 CHOICE OF PROGRAMMING LANGUAGE USED

From the previous analysis, it is pertinent to say that the proposed system is going to be used to store large number of data\information, and time-to-time retrieval of record. Due to this fact, the choice of the programming language chosen for the development of the system is Database Management System (DBMS) package with special preference for Visual FoxPro.

3.1.2 Features of the programming language chosen.

The choice of Visual FoxPro arose because of the following reasons and features posed by the application software.

1. It is easy to write an interactive user interface program and also simple to understand.
2. It is user's friendly
3. It reduces data redundancy
4. Data integrity can be maintained
5. Provides easy and greater access to information
6. Individual database file can be designed to meet specified requirement of a particular functional unit of an organization.
7. The Visual FoxPro allows the source program to be computed to an executable file thereby allowing the program to be run independent of the

application software that was used in coding the program, for example, Visual FoxPro

8. It has quality graphical user's interface
9. It is easy to maintain and to debug; it has debugging tools

3.2 SYSTEM DESIGN

System Design can be defined to provide detailed documentation of the entire system. It serves as communication to management, programmers, operating staff and users. The system is designed to bring efficiency into NITEL phone cards Sales system. It is specifically design to accomplish the processing of sales records of various units on daily basis, registration of customers for card unit and quantity bought and also to keep record of daily bank transaction.

Some of the functions the system is expected to perform comprise of the following and if they are fully implemented, the system will definitely bring efficiency to NITEL phone card sales record system.

1. The system should be able to record the total number of cards received in various centers by quantity and unit type.
2. It should be able to record individual card sales in the appropriate card unit section showing all the details of the transaction. These include serial number (s) of card (s) sold, date, name and address of the purchasers.
3. The system should be able to provide immediate information on various cards units and the quantity available for each unit at any time of the day.

4. This system must accept/process all necessary information provided by each customer such as name, address, quantity purchase and date.
5. The system should be able to print whatever register required of it such as sales record or bank transactions.
6. It must also give room for modification of customers record whenever the need arises either to correct or update their records.
7. The system should provide chance for extensibility in the near future i.e there should be room for modification or addition when needed.
8. The system must prevent unauthorized access into it, with the use of password. This will protect customer's data from being corrupted or altered.
9. The system must be able to access easily. It must allow for deletion of record or the eventual addition of records when necessary.
10. This system is design suitable to be use in any of NITEL sales point still using registers for the records.
11. The system should be able to perform the updating process and give reports right on the screen, in an interactive mode.
12. The system should be able to display total collection from various centers for any required date.

3.2.1 INPUT SPECIFICATIONS

Input can simply be defined as the information that is entered or recorded into the computer. Input specification is now the expected input, which will guide the system design. The significant of input data is that error can be detected by the computer and rectified by the user. They are used to verify that the

program has been adequately checked (in good working condition) and subsequently if there is any problem arising, the specification is used to correct such a problem. The expected inputs are information to design the new system.

3.2.2 OUTPUT SPECIFICATION.

Output can be defined as the information sent out of the computer system to some external destination such as the display screen, disk drive or printer.

Output specification is now the expected output of the program designed.

That is, to be expected from the input supplied in the system design.

The most significant output specification has been screen based which can be said to be user's friendly. These could be the case of the report presented in this program.

3.2.3 DATA STRUCTURE.

The first step in creating file is to design its database structure. Some data structures are created which will be used by programs written for the proposed system. The data base structure is as follows.

1. Tdaily. dbf

NAME	TYPE	WIDTH	DECIMAL
Ndate	Date	8	
T collect	Numeric	17	2
PIS- amount	Numeric	17	2

PIS - no	Character	25	
Date - banked	Date	8	
Mgr - check	Character	15	
Remarks	Character	10	
Center - name	Character	35	
Sign	Character	10	

This database file is used for storing all necessary information regarding daily bank transactions.

2. Tregister. dbf

NAME	TYPE	WIDTH	DECIMAL
Center name	Character	30	
Regdate	Date	8	
Card - units	Character	15	
Quantity	Numeric	4	0

This data file is used for registration of various centers.

3. Tsales . dbf

NAME	TYPE	WIDTH	DECIMAL
Centre name	Character	30	
Sdate	Date	8	
Cards - sold	Character	15	
Stock - bal	Numeric	4	0
Card - sno	Character	10	

Cust - name	Character	25	
Cust - addr	Memo	4	
Qty	Numeric	4	0

This database file is used for card analysis.

Samples of the old system that is the use of register to keep sales record of phone cards is shown. These are the format, which the register system uses in keeping all necessary data. In this project, these formats have being program such that the new system (computer system) can effectively do the work of such register in a faster and more accurate way.

COMPUTERISATION OF NITEL PHONECARD SALES RECORD. MINNA

Data Entry Print Report Quit



Welcome to
**COMPUTERISATION OF NITEL PHONE
CARD SALES RECORD SYSTEM**

A project developed by:

OYEDIRAN, OPEYEMI

PGD/MCS/99/2000/923

MATHS/COMPUTER SCIENCE DEPARTMENT

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA.

IN PARTIAL FULFILMENT FOR THE REQUIREMENT FOR THE AWARD OF
POSTGRADUATE DIPLOMA IN COMPUTER SCIENCE.

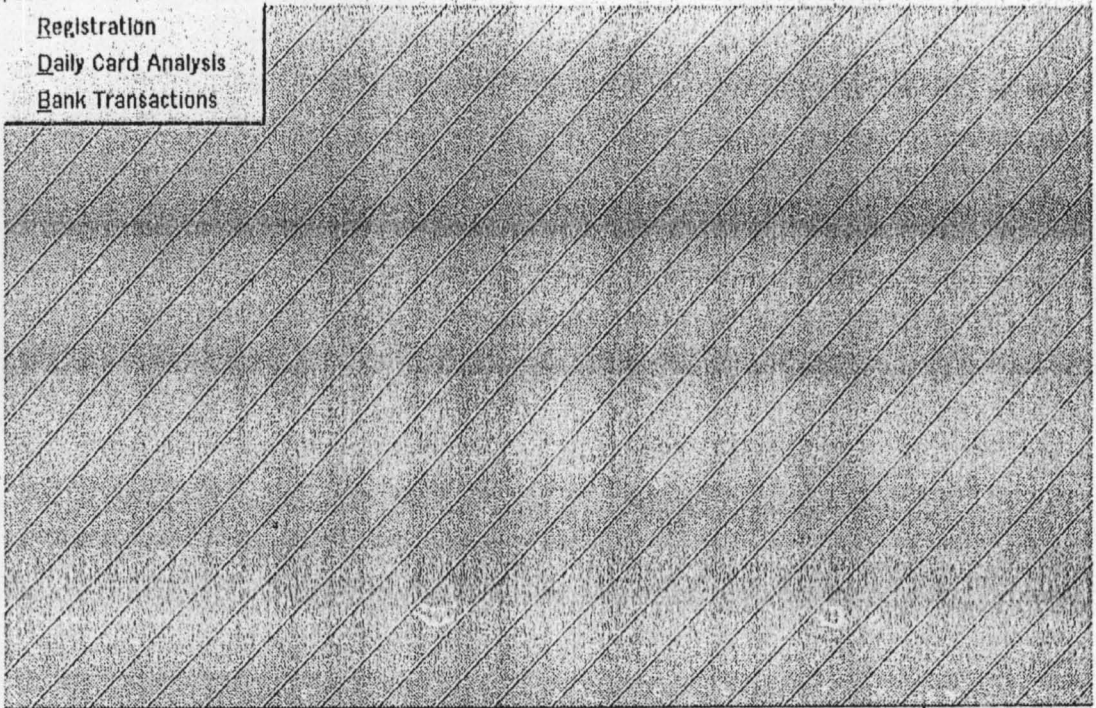
COMPUTERISATION OF NITEL PHONECARD SALES RECORD, MINNA [] [] [X]

Data Entry Print Report Quit

Registration

Daily Card Analysis

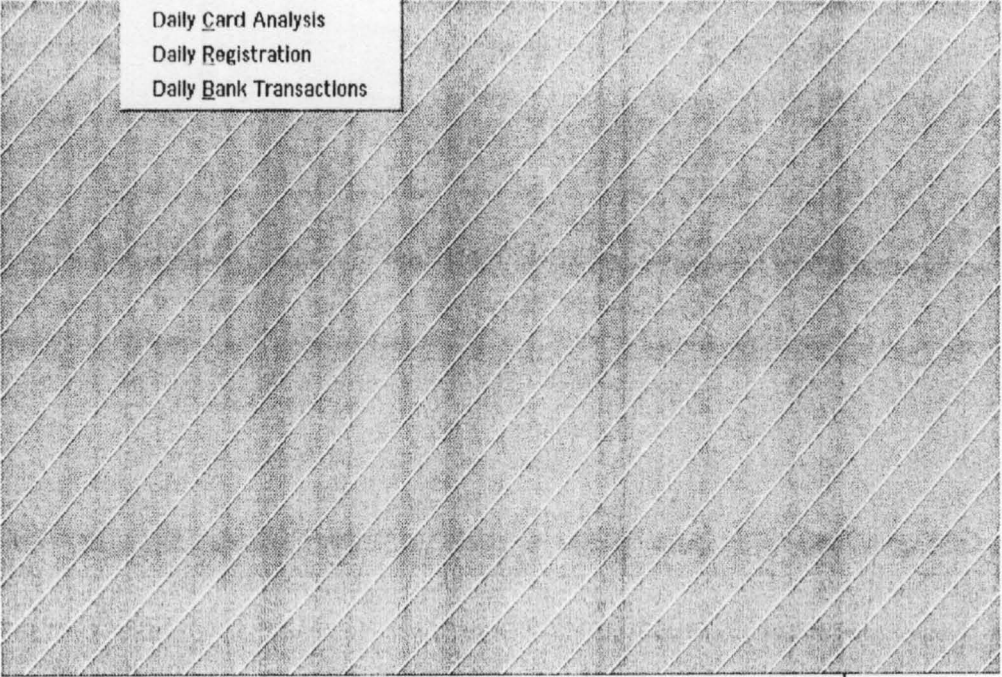
Bank Transactions



COMPUTERISATION OF NITEL PHONECARD SALES RECORD, MINNA.

Data Entry | Print Report | Quit

- Daily Card Analysis
- Daily Registration
- Daily Bank Transactions





REGISTRATION FORM

Centre Name	BOSSO CENTRE
Date	12/04/2001
Card Units	100 UNITS
Quantity In Stock	20

Add Delete Modify Close << < > >>

AREA EXCHANGE CARD ANALYSIS

AREA EXCHANGE CARD ANALYSIS

Centre Name	FUT CENTRE	Date	12/04/2001
Card Purchased	100 UNITS	Quantity Purchased	5
Card Serial Number	QWE123P124		
Customer Name	TUNDE		
Customer Address	TUDUN-FULANI		
Stock Balance	15		

Add Delete Modify Close << < > >>

COMPUTERISATION OF TELEPHONE CARD SALES RECORD, MINNA

Data Entry Print Report Quit



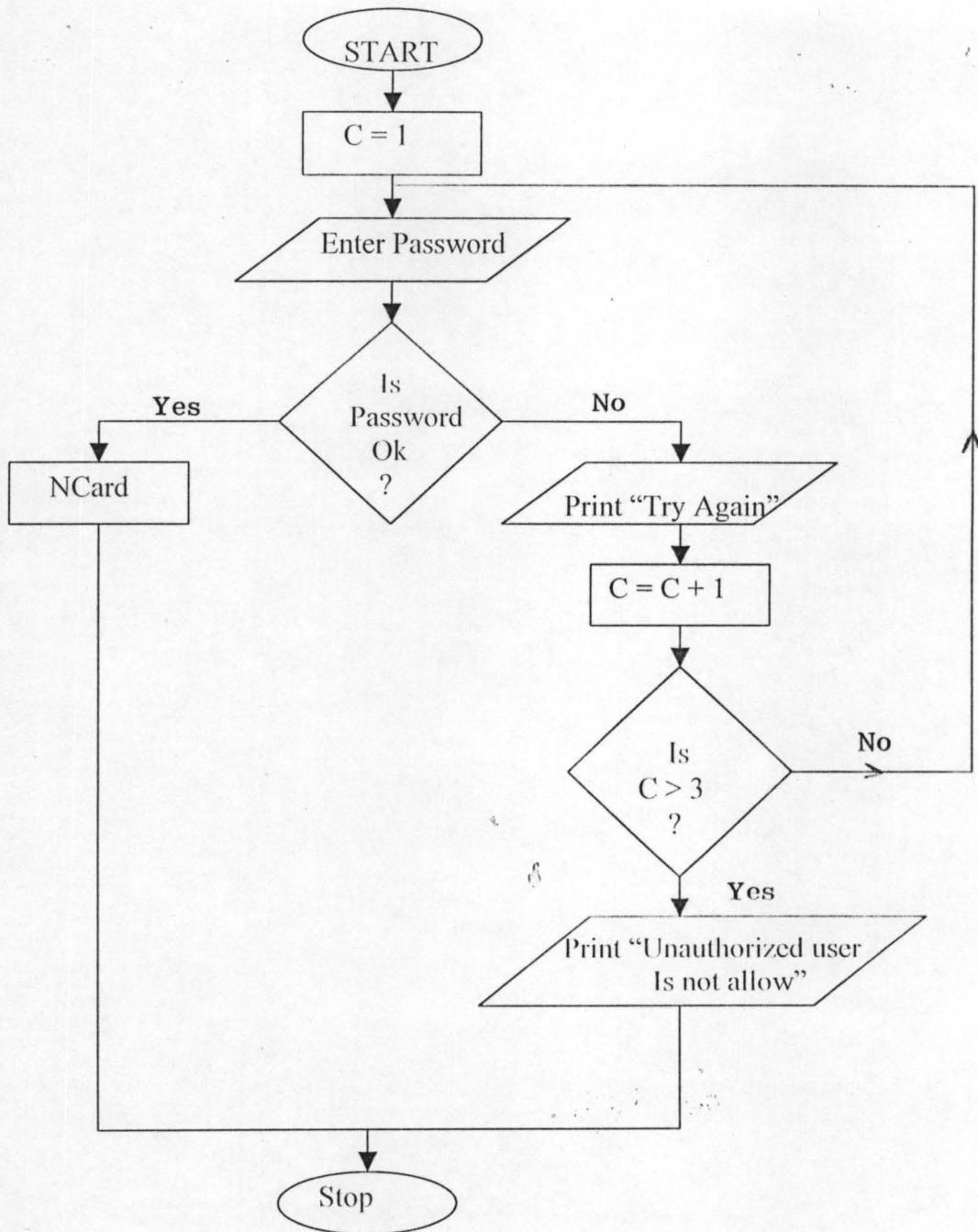
EXCHANGE AREA BANK TRANSACTIONS

EXCHANGE AREA BANK TRANSACTIONS

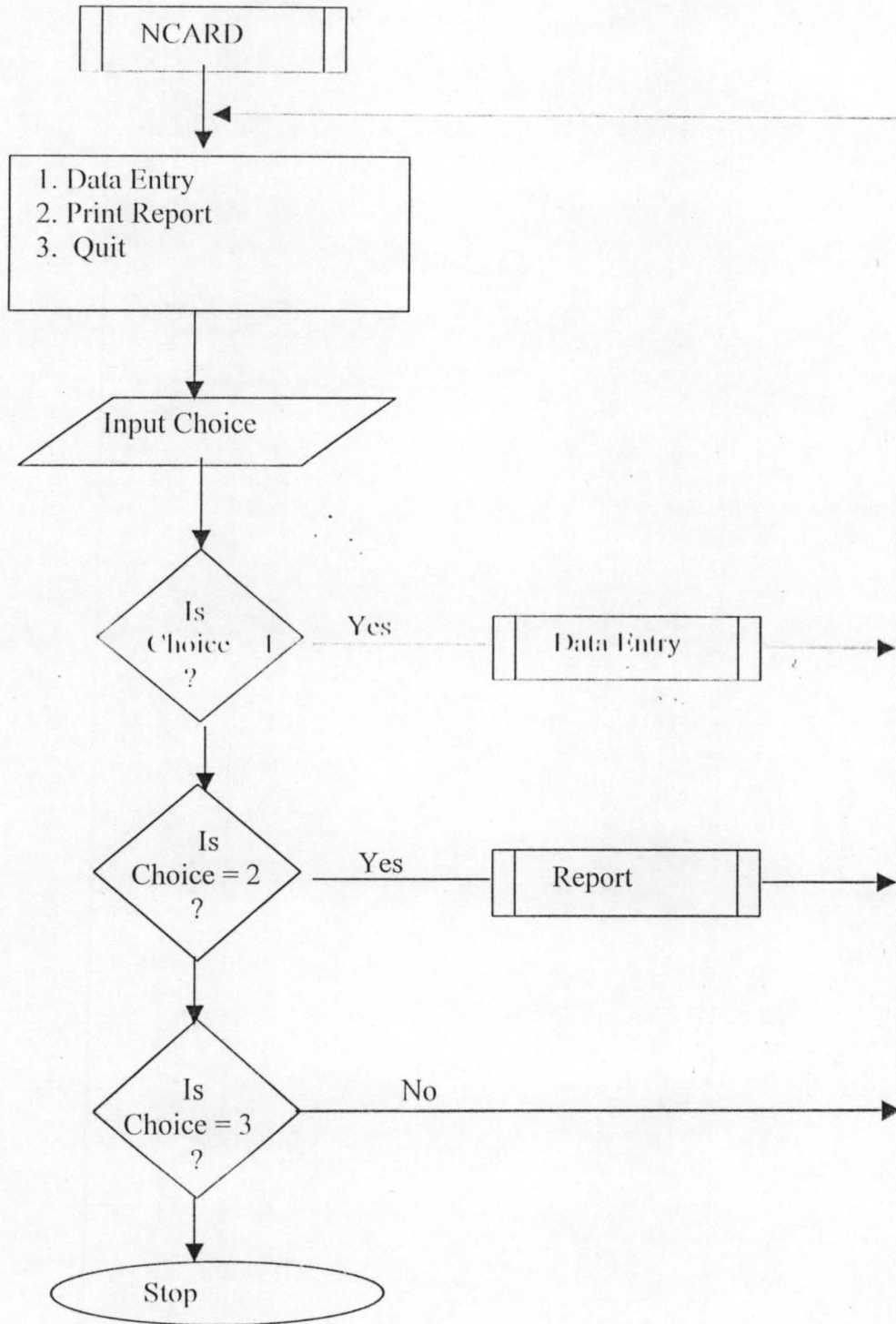
Date	12/04/2001
Centre Name	BOSSO CENTRE
Total Collection	50000.00
Amount on PIS	50000.00
PIS Number	123
Date Banked	13/04/2001
Remarks	OK

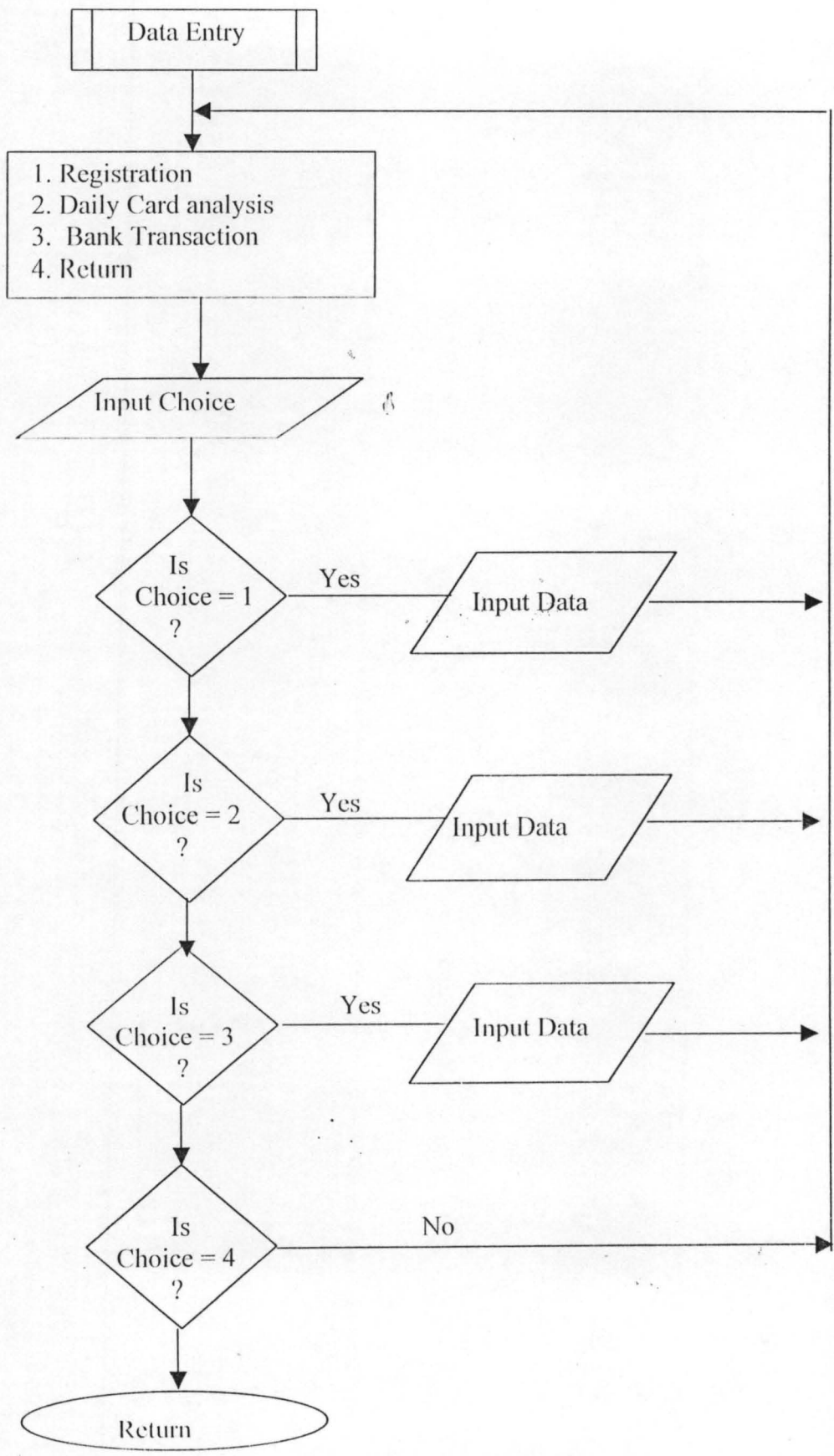
Add Delete Modify Close << < > >>

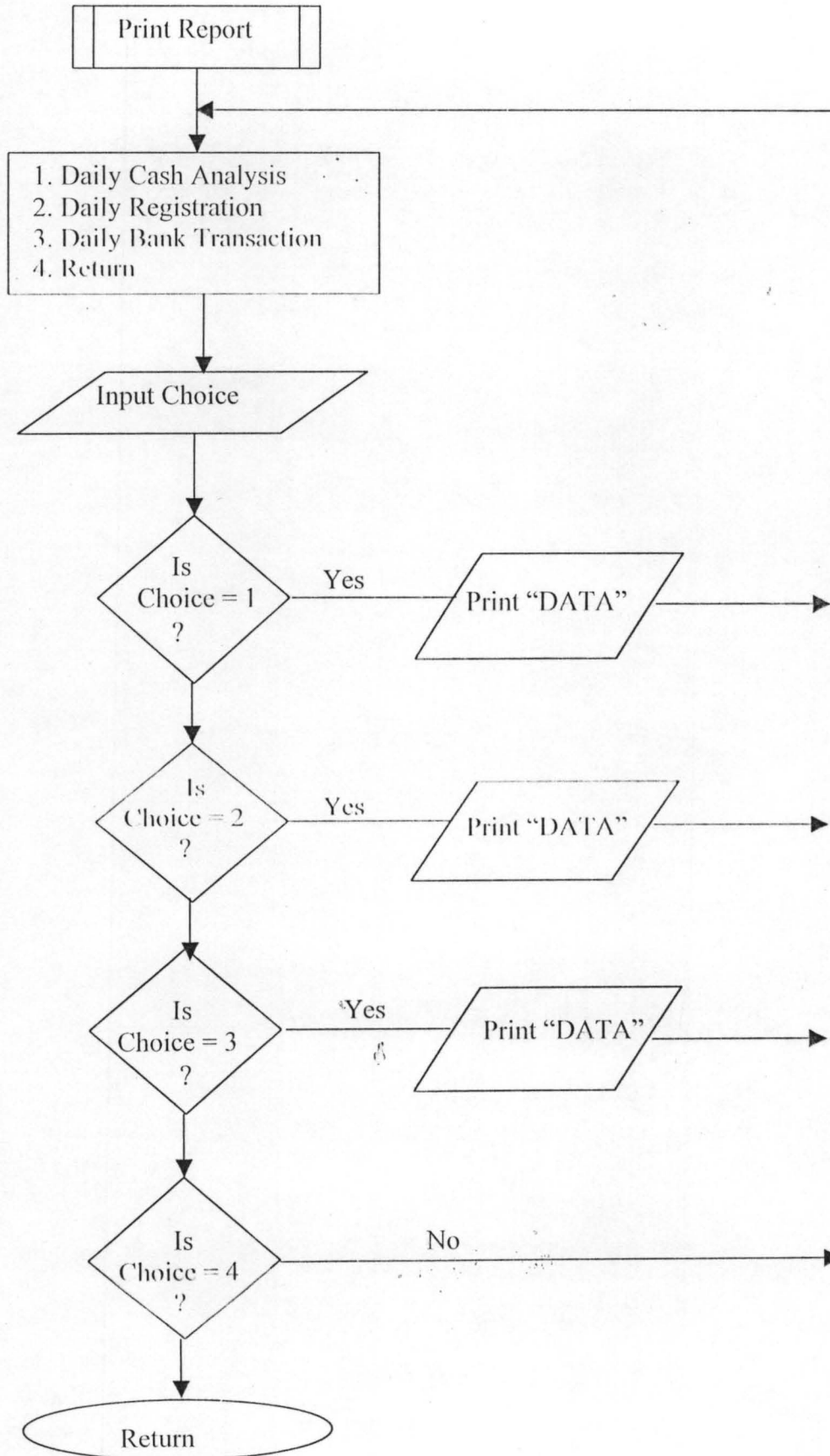
ALGORITHM OF THE PROGRAM



MAIN MENU







3.4 EXISTING REGISTER FOR SALES RECORD KEEPING

There are forms in use in NITEL for the purpose of keeping records of sales of phone cards. Such forms include exchange area card analysis, exchange area daily bank transaction, daily payphone revenue summary and exchange area daily cash collections forms. The forms are presented.

Introducing a computerized system that makes use of computer to replace all the manual system of keeping sales record requires modification and simplicity in NITEL. These are needed because from observation, an organization such as NITEL will need to prevent late and incorrect sales record to avoid fraud and any other inefficiency.

Generally, NITEL presently uses all these various register discussed above to keep sales records of payphones. The need for efficient and accurate record, which permits easy access, should be considered to permit use of computer instead of these registers.

The advantages of computerizing sales records compare to keeping registers include decision making policy, the speed of reference, good data storage capabilities, easy retrieval of data from storage and possibilities of pictorial presentation of data in form of graphs. Also the problem of fraud is reduced to a reasonable level by the use of computer system. Due to these advantages, the high need of computerizing sales record of phone cards sold by NITEL.

CHAPTER FOUR

4.0 IMPLEMENTATION OF THE PHONE CARD SYSTEM

4.1.1 SYSTEM INSTALLATION

This is the process of transferring the developed system from the floppy disk to a permanent storage device called the hard disk.

However, due to vast improvement in recent operating systems the installation of the software is a very simple operation.

The procedure is as follows:

STEP	PROCEDURE	RESULT
1. Booth the system	-	
2. Go to start	Click	Start popup menu is displayed
3. Run submenu	Click	Run dialog box displayed
4. Insert NCARD diskette into A: \	-	-
5. Type the source drive (A:\)	Browse	Content of A:\ displayed
6. Select setup	Double click, click ok	Installation begins
7. Follow the instructions that follows	Click	Installation in progress
8. Destination	-	Software installed to C:\ successfully.

4.1.2 BRINGING THE SOFTWARE FROM C:\ TO WINDOW PROGRAM SUBMENU.

STEPS	PROCEDURE	RESULT
1. Go to start	Click	Start popup menu displayed
2.setting submenu	Click	-
3. Choose taskbar and start menu	Click	Taskbar dialog box displayed
4. Select start menu program	Click	Displayed
5. Select add	Click	Displayed
6. Browse to select NCARD set software	Double click	Displayed
7. Select card analysis	Double click	Displayed
8. Select next	Click	
9. Select folder (program)	Click	
10. Destination	Click	NCARD software copied into program submenu.

4.2 TESTING

This is a vital stage in system implementation. It involves the use of test data on the new system in order to ensure that the system works accurately and efficiently before life operation commences.

However, the new system has been tested using various data on all of the modules of the system. At the end of the test, it was confirmed that it worked efficiently as shown in the forms and tables in the appendix.

4.2 SYSTEM CONVERSION

Conversion is the process of changing from an old system to a new one. Four methods of conversion exist they are:

1. **PARALLEL OPERATION METHOD:** Here the new system is used along with old one, which is gradually phased out.
2. **DIRECT CHANGE OVER:** This is the total replacement of an old system by the new one at once.
3. **PILOT APPROACH:** A working version of the system is implemented in one part of the organization, changes are made based on feedback and the new system is then installed in the rest part of the organization.
4. **PHASE - IN METHOD:** This is a gradual process of changing from old to new. The new system is used in a section of the organization in parallel with the old, until it becomes effective on its own. Then the same thing is done in another section. This is repeated in all the sections until the entire organization is covered.

The conversion method that is appropriate for the system developed of the sales record of phone cards in NITEL is the PHASE - IN METHOD operation method. This is because from observation of NITEL operations, there are so many rural selling points, which may not be too easy in introducing computer systems to such place all at once. Also, daily report will be checked and signed on daily basis by the payphone manager, which may not be possible in the system. Therefore the new system is used along with the old system.

CHAPTER FIVE

5.0 SYSTEM DOCUMENTATION AND CONCLUSION

5.1 DOCUMENTATION

Documentation is the proper keeping of records for future use. The program (coding) used in computerizing the NITEL phone cards sales record system needs to be properly documented such that, when the initial programmer is not available any other programmer can get into the source code to verify a thing or make necessary amendment, where program is to be developed to meet the immediate need.

As technology develops, there may be need to add one or two things into the source code such that it can do more than sales record. In such a case, a proper documentation will make the work easier. How the program is run, samples of work done and installation diskette should be properly kept.

Installation diskette enables you to introduce a particular program into a system that does not have the programming language in use. Also every thing that has to do with this program is properly documented and reference can be made.

5.2 RECOMMENDATION

From this research work and interaction with NITEL officials in charge of payphone system of communication. I will like to recommend to NITEL being a profit-making establishment to improve on their level of record keeping in the sales of phone cards.

Proper records can be kept as discussed in chapters one and two of this project. Computerizing of sales record should be employed by NITEL being more conducive, accurate and easy to understand by the concerned staff. Training of staff to use the computer system in this area should also be encouraged.

5.3 CONCLUSION

In the course of this project work, a software package has been developed to help in monitoring and keeping proper record of sales of phone card and registration of customers on daily basis in NITEL. This can also produce report for checking by the pay phone manager or any authorized authority.

The developed system if carefully monitored will assist a great deal in storing of data and not keeping so much registers; which is more bulky and risky. This system also help to produce report faster than the manual system of sales record keeping.

REFERENCES

1. Kolatis, M.S. (1948) Mathematics for data processing and computing
2. Reju, S. A Elementary Algorithm, Unpublished lecture note.
3. Sergeev, N. , Vashkeriah, N. (1976) An introduction to computers.
4. Taussig, A. (1998) – Visual FoxPro 6.0, programmers guide
Microsoft press, Redmond, Washington U.S.A.
5. NITEL MEMO (unpublished)

CLEAR ALL
CLOS ALL
SET DEFA TO c:\ncard
SET DATE TO british
SET TALK OFF
SET STATUS OFF
SET ECHO OFF
SET DELETED OFF

PUBLIC prval
prval = 0

my = 0
do form frmlogin

_SCREEN.CAPTION = "COMPUTERISATION OF NITEL PHONECARD SALES
RECORD, MINNA."
_SCREEN.ICON = "PC04.ico"
_SCREEN.PICTURE = "WIZFLAX.bmp"
*DO FORM ffirst

m = 0
do form ffirst

sele 1
do mainmenu.mpr
read events
return

PUBL rqty1, rqty2, rqty4, rqty10, regname
STORE 0 TO rqty1, rqty2, rqty4, rqty10

PUBL total1, total2, total4, total10
STORE 0 TO total1, total2, total4, total10
RGNAME = ""

SET SAFETY OFF
SET TALK OFF
CLEA

PUBL xndate
CLOS DATA
CREATE TABLE rpreg (centname c(30), mdate d(8), ;
colcard1 N(4), colcard2 N(4), colcard4 N(4), colcard10 N(4))

SET SAFETY ON


```
USE rregister IN 1 AGAIN EXCL
SELE 1
SET FILTER TO regdate = xndate
USE rpreg IN 2 AGAIN
```

```
SELE 1
GO TOP
```

```
DO WHILE !EOF()
  rname = centre_name
  SELE 2      &&rpreg
  LOCATE FOR ALLT(centname) = ALLT(RGNAME)
  IF FOUND()
    SELE 1
    IF !EOF()
      SKIP
      RGNAME = centre_name
    ENDIF
  ELSE
    SELE 2      &&rpreg
    APPEND BLANK
    REPL centname WITH RGNAME
    SELE 1
    IF !EOF()
      SKIP
      RGNAME = centre_name
    ENDIF
  ENDIF
ENDDO
```

```
SELE 2
SCAN
```

```
  RGNAME = centname
  SELE 1

  SUM quantity FOR (ALLT(card_units) = "100 UNITS" AND
ALLT(centre_name) = ALLT(RGNAME) AND regdate = xndate) TO rqty1
  SUM quantity FOR (ALLT(card_units) = "200 UNITS" AND
ALLT(centre_name) = ALLT(RGNAME) AND regdate = xndate) TO rqty2
  SUM quantity FOR (ALLT(card_units) = "400 UNITS" AND
ALLT(centre_name) = ALLT(RGNAME) AND regdate = xndate) TO rqty4
  SUM quantity FOR (ALLT(card_units) = "1000 UNITS" AND
ALLT(centre_name) = ALLT(RGNAME) AND regdate = xndate) TO rqty10
  SELE rpreg
  REPL centname WITH RGNAME, mdate WITH xndate
```

```

    REPL colcard1 WITH rqty1, colcard2 WITH rqty2, colcard4 WITH rqty4,
colcard10 WITH rqty10
ENDSCAN
SUM colcard1 TO total1
SUM colcard2 TO total2
SUM colcard4 TO total4
SUM colcard10 TO total10
PUBL rpqty1, rpqty2, rpqty4, rpqty10, rpsto1, rpsto2, rpsto4, rpsto10
STORE 0 TO rpqty1, rpqty2, rpqty4, rpqty10, rpsto1, rpsto2, rpsto4, rpsto10

PUBL tqty1, tqty2, tqty4, tqty10, tsto1, tsto2, tsto4, tsto10, coll1, coll2, coll4, coll10
STORE 0 TO tqty1, tqty2, tqty4, tqty10, tsto1, tsto2, tsto4, tsto10, coll1, coll2, coll4,
coll10
SET SAFETY OFF
SET TALK OFF
CLEA
CLOS DATA
CREATE TABLE rpsales (cent_name c(30), rdate d(8), ;
    card1 N(4), card2 N(4), card4 N(4), card10 N(4), sto1 N(4), sto2 N(4), sto4 N(4),
sto10 N(4))

SET SAFETY ON
USE tsales IN 1 AGAIN
USE rpsales IN 2 AGAIN
USE tregister IN 3 AGAIN

SELE 1
SET FILTER TO sdate = xndate
GO TOP
DO WHILE !EOF()
    bname = centre_name
    SELE 2      &&rpsales
    LOCATE FOR ALLT(cent_name) = ALLT(bname)
    IF FOUND()
        SELE 1
        IF !EOF()
            SKIP
            bname = centre_name
        ENDIF
    ELSE
        SELE 2      &&rpsales
        APPEND BLANK
        REPL cent_name WITH bname
        SELE 1
        IF !EOF()
            SKIP

```

```

                bname = centre_name
            ENDIF
        ENDDIF
    ENDDO

SELE 2      &&rpsales
SCAN
    bname = cent_name

    SELE 3
    SET FILT TO regdate = xndate
    SUM quantity FOR (ALLT(centre_name) = ALLT(bname) AND regdate =
xndate AND ALLT(card_units)= "100 UNITS") TO coll1
    SUM quantity FOR (ALLT(centre_name) = ALLT(bname) AND regdate =
xndate AND ALLT(card_units)= "200 UNITS") TO coll2
    SUM quantity FOR (ALLT(centre_name) = ALLT(bname) AND regdate =
xndate AND ALLT(card_units)= "400 UNITS") TO coll4
    SUM quantity FOR (ALLT(centre_name) = ALLT(bname) AND regdate =
xndate AND ALLT(card_units)= "1000 UNITS") TO coll10

    SELE 1

    SUM qty FOR (ALLT(cards_sold) = "100 UNITS" AND ALLT(centre_name) =
ALLT(bname) AND sdate = xndate) TO rpqty1
    SUM qty FOR (ALLT(cards_sold) = "200 UNITS" AND ALLT(centre_name) =
ALLT(bname) AND sdate = xndate) TO rpqty2
    SUM qty FOR (ALLT(cards_sold) = "400 UNITS" AND ALLT(centre_name) =
ALLT(bname) AND sdate = xndate) TO rpqty4
    SUM qty FOR (ALLT(cards_sold) = "1000 UNITS" AND ALLT(centre_name)
= ALLT(bname) AND sdate = xndate) TO rpqty10

    rpsto1 = coll1 - rpqty1
    rpsto2 = coll2 - rpqty2
    rpsto4 = coll4 - rpqty4
    rpsto10 = coll10 - rpqty10
    *use tsales&&rpsals
    SELE 2      &&rpsales
    REPL cent_name WITH bname, rdate WITH xndate
    REPL sto1 WITH rpsto1, sto2 WITH rpsto2, sto4 WITH rpsto4, sto10 WITH
rpsto10
    REPL card1 WITH rpqty1, card2 WITH rpqty2, card4 WITH rpqty4, card10
WITH rpqty10

ENDSCAN
SUM sto1 TO tsto1
SUM sto2 TO tsto2

```

```
SUM sto4 TO tsto4
SUM sto10 TO tsto10
SUM card1 TO tqty1
SUM card2 TO tqty2
SUM card4 TO tqty4
SUM card10 TO tqty10
```

```
*-- Form:      form1 (c:\ncard\frmcardanalysis.scx)
*-- ParentClass: form
*-- BaseClass: form
*
```

```
DEFINE CLASS form1 AS form
```

```
    Height = 330
    Width = 506
    DoCreate = .T.
    AutoCenter = .T.
    BorderStyle = 3
    Caption = "AREA EXCHANGE CARD ANALYSIS"
    BackColor = RGB(215,160,160)
    Name = "Form1"
```

```
    ADD OBJECT shape1 AS shape WITH ;
```

```
        Top = 277, ;
        Left = 28, ;
        Height = 39, ;
        Width = 450, ;
        BorderWidth = 2, ;
        Curvature = 15, ;
        BackColor = RGB(130,130,190), ;
        BorderColor = RGB(130,82,30), ;
        Name = "Shape1"
```

```
    ADD OBJECT shape3 AS shape WITH ;
```

```
        Top = 46, ;
        Left = 17, ;
        Height = 220, ;
        Width = 472, ;
        BorderWidth = 2, ;
        Curvature = 15, ;
        BackColor = RGB(239,186,160), ;
        BorderColor = RGB(130,82,30), ;
        Name = "Shape3"
```



```
ADD OBJECT txtcentre_name AS textbox WITH ;
    Comment = "" ;
    FontName = "Times New Roman", ;
    FontSize = 10, ;
    ControlSource = "m.centre_name", ;
    Format = "!", ;
    Height = 23, ;
    Left = 128, ;
    MaxLength = 30, ;
    TabIndex = 1, ;
    Top = 54, ;
    Width = 219, ;
    Name = "txtCentre_name"
```

```
ADD OBJECT lblcentre_name AS label WITH ;
    AutoSize = .T., ;
    FontBold = .T., ;
    FontName = "Times New Roman", ;
    FontSize = 12, ;
    WordWrap = .T., ;
    BackStyle = 0, ;
    Caption = "Centre Name", ;
    Height = 22, ;
    Left = 30, ;
    Top = 54, ;
    Width = 90, ;
    TabIndex = 17, ;
    ForeColor = RGB(255,0,0), ;
    Name = "lblCentre_name"
```

```
ADD OBJECT txtsdate AS textbox WITH ;
    Comment = "" ;
    FontName = "Times New Roman", ;
    FontSize = 10, ;
    ControlSource = "m.sdate", ;
    Format = "E", ;
    Height = 23, ;
    Left = 404, ;
    TabIndex = 2, ;
    Top = 54, ;
    Width = 73, ;
    Name = "txtSdate"
```

```
ADD OBJECT lblsdate AS label WITH ;
    AutoSize = .T., ;
    FontBold = .T., ;
    FontName = "Times New Roman", ;
    FontSize = 12, ;
    WordWrap = .T., ;
    BackStyle = 0, ;
    Caption = "Date", ;
    Height = 22, ;
    Left = 366, ;
    Top = 55, ;
    Width = 33, ;
    TabIndex = 18, ;
    ForeColor = RGB(255,0,0), ;
    Name = "lblSdate"
```

```
ADD OBJECT lblcards_sold AS label WITH ;
    AutoSize = .T., ;
    FontBold = .T., ;
    FontName = "Times New Roman", ;
    FontSize = 12, ;
    WordWrap = .T., ;
    BackStyle = 0, ;
    Caption = "Card Purchased", ;
    Height = 22, ;
    Left = 30, ;
    Top = 83, ;
    Width = 106, ;
    TabIndex = 20, ;
    ForeColor = RGB(255,0,0), ;
    Name = "lblCards_sold"
```

```
ADD OBJECT txtstock_bal AS textbox WITH ;
    Comment = "", ;
    FontName = "Times New Roman", ;
    FontSize = 10, ;
    ControlSource = "m.stock_bal", ;
    Enabled = .F., ;
    Height = 23, ;
    Left = 169, ;
    MaxLength = 10, ;
    TabIndex = 8, ;
```

```
Top = 234, ;  
Width = 81, ;  
DisabledBackColor = RGB(192,192,192), ;  
DisabledForeColor = RGB(0,0,0), ;  
Name = "txtStock_bal"
```

```
ADD OBJECT label1 AS label WITH ;  
    AutoSize = .T., ;  
    FontBold = .T., ;  
    FontName = "Times New Roman", ;  
    FontSize = 12, ;  
    WordWrap = .T., ;  
    BackStyle = 0, ;  
    Caption = "Stock Balance", ;  
    Height = 22, ;  
    Left = 30, ;  
    Top = 232, ;  
    Width = 96, ;  
    TabIndex = 22, ;  
    ForeColor = RGB(255,0,0), ;  
    Name = "Label1"
```

```
ADD OBJECT cmdadd AS commandbutton WITH ;  
    AutoSize = .F., ;  
    Top = 284, ;  
    Left = 36, ;  
    Height = 25, ;  
    Width = 59, ;  
    FontBold = .T., ;  
    FontName = "Century Schoolbook", ;  
    FontSize = 9, ;  
    Caption = "\<Add", ;  
    TabIndex = 9, ;  
    ForeColor = RGB(0,0,160), ;  
    Name = "cmdadd"
```

```
ADD OBJECT cmddelete AS commandbutton WITH ;  
    AutoSize = .F., ;  
    Top = 284, ;  
    Left = 97, ;  
    Height = 25, ;  
    Width = 59, ;  
    FontBold = .T., ;
```

```
FontName = "Century Schoolbook", ;  
FontSize = 9, ;  
Caption = "\<Delete", ;  
TabIndex = 10, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmddelete"
```

```
ADD OBJECT cmdmodify AS commandbutton WITH ;
```

```
AutoSize = .F., ;  
Top = 284, ;  
Left = 158, ;  
Height = 25, ;  
Width = 59, ;  
FontBold = .T., ;  
FontName = "Century Schoolbook", ;  
FontSize = 9, ;  
Caption = "\<Modify", ;  
TabIndex = 11, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmdmodify"
```

```
ADD OBJECT cmdclose AS commandbutton WITH ;
```

```
AutoSize = .F., ;  
Top = 284, ;  
Left = 219, ;  
Height = 25, ;  
Width = 59, ;  
FontBold = .T., ;  
FontName = "Century Schoolbook", ;  
FontSize = 9, ;  
Caption = "\<Close", ;  
TabIndex = 12, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmdclose"
```

```
ADD OBJECT cmdfirst AS commandbutton WITH ;
```

```
AutoSize = .F., ;  
Top = 284, ;  
Left = 292, ;  
Height = 25, ;  
Width = 43, ;  
FontBold = .T., ;  
FontName = "Century Schoolbook", ;
```



```
FontSize = 9, ;  
Caption = "<<", ;  
TabIndex = 13, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmdfirst"
```

```
ADD OBJECT cmdnext AS commandbutton WITH ;
```

```
AutoSize = .F., ;  
Top = 284, ;  
Left = 382, ;  
Height = 25, ;  
Width = 43, ;  
FontBold = .T., ;  
FontName = "Century Schoolbook", ;  
FontSize = 9, ;  
Caption = ">", ;  
TabIndex = 15, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmdnext"
```

```
ADD OBJECT cmdlast AS commandbutton WITH ;
```

```
AutoSize = .F., ;  
Top = 284, ;  
Left = 427, ;  
Height = 25, ;  
Width = 43, ;  
FontBold = .T., ;  
FontName = "Century Schoolbook", ;  
FontSize = 9, ;  
Caption = ">>", ;  
TabIndex = 16, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmdlast"
```

```
ADD OBJECT cmdprevious AS commandbutton WITH ;
```

```
AutoSize = .F., ;  
Top = 284, ;  
Left = 337, ;  
Height = 25, ;  
Width = 43, ;  
FontBold = .T., ;  
FontName = "Century Schoolbook", ;  
FontSize = 9, ;
```

```
Caption = "<", ;  
TabIndex = 14, ;  
ForeColor = RGB(0,0,160), ;  
Name = "cmdprevious"
```

```
ADD OBJECT label2 AS label WITH ;  
    AutoSize = .T., ;  
    FontBold = .T., ;  
    FontName = "Times New Roman", ;  
    FontSize = 16, ;  
    WordWrap = .T., ;  
    Alignment = 2, ;  
    BackStyle = 0, ;  
    Caption = "AREA EXCHANGE CARD ANALYSIS", ;  
    Height = 27, ;  
    Left = 71, ;  
    Top = 14, ;  
    Width = 364, ;  
    TabIndex = 21, ;  
    ForeColor = RGB(3,187,207), ;  
    Name = "Label2"
```

```
ADD OBJECT label3 AS label WITH ;  
    AutoSize = .T., ;  
    FontBold = .T., ;  
    FontName = "Times New Roman", ;  
    FontSize = 16, ;  
    WordWrap = .T., ;  
    Alignment = 2, ;  
    BackStyle = 0, ;  
    Caption = "AREA EXCHANGE CARD ANALYSIS", ;  
    Height = 27, ;  
    Left = 70, ;  
    Top = 14, ;  
    Width = 364, ;  
    TabIndex = 19, ;  
    ForeColor = RGB(0,0,128), ;  
    Name = "Label3"
```

```
ADD OBJECT txtcard_sno AS textbox WITH ;  
    Comment = "", ;  
    FontName = "Times New Roman", ;  
    ControlSource = "m.card_sno", ;
```

```
Format = "!"; ;
Height = 23, ;
Left = 169, ;
MaxLength = 10, ;
TabIndex = 5, ;
Top = 112, ;
Width = 144, ;
Name = "txtCard_sno"
```

```
ADD OBJECT lblcard_sno AS label WITH ;
AutoSize = .T., ;
FontBold = .T., ;
FontName = "Times New Roman", ;
FontSize = 12, ;
WordWrap = .T., ;
BackStyle = 0, ;
Caption = "Card Serial Number", ;
Height = 22, ;
Left = 30, ;
Top = 112, ;
Width = 134, ;
TabIndex = 23, ;
ForeColor = RGB(255,0,0), ;
Name = "lblCard_sno"
```

```
ADD OBJECT txtcust_name AS textbox WITH ;
Comment = "", ;
FontName = "Times New Roman", ;
ControlSource = "m.cust_name", ;
Format = "!"; ;
Height = 23, ;
Left = 169, ;
MaxLength = 25, ;
TabIndex = 6, ;
Top = 141, ;
Width = 219, ;
Name = "txtCust_name"
```

```
ADD OBJECT lblcust_name AS label WITH ;
AutoSize = .T., ;
FontBold = .T., ;
FontName = "Times New Roman", ;
FontSize = 12, ;
```

```
WordWrap = .T., ;
BackStyle = 0, ;
Caption = "Customer Name", ;
Height = 22, ;
Left = 30, ;
Top = 141, ;
Width = 109, ;
TabIndex = 24, ;
ForeColor = RGB(255,0,0), ;
Name = "lblCust_name"
```

```
ADD OBJECT edtCust_addr AS editbox WITH ;
```

```
Comment = "", ;
FontName = "Times New Roman", ;
Format = "!", ;
Height = 58, ;
Left = 169, ;
TabIndex = 7, ;
Top = 170, ;
Width = 219, ;
ControlSource = "m.cust_addr", ;
Name = "edtCust_addr"
```

```
ADD OBJECT lblCust_addr AS label WITH ;
```

```
AutoSize = .T., ;
FontBold = .T., ;
FontName = "Times New Roman", ;
FontSize = 12, ;
WordWrap = .T., ;
BackStyle = 0, ;
Caption = "Customer Address", ;
Height = 22, ;
Left = 30, ;
Top = 170, ;
Width = 124, ;
TabIndex = 25, ;
ForeColor = RGB(255,0,0), ;
Name = "lblCust_addr"
```

```
ADD OBJECT txtQty AS textbox WITH ;
```

```
Comment = "", ;
FontName = "Times New Roman", ;
ControlSource = "m.qty", ;
```



```
Height = 23, ;  
Left = 433, ;  
TabIndex = 4, ;  
Top = 83, ;  
Width = 44, ;  
Name = "txtQty"
```

```
ADD OBJECT lblQty AS label WITH ;  
AutoSize = .T., ;  
FontBold = .T., ;  
FontName = "Times New Roman", ;  
FontSize = 12, ;  
WordWrap = .T., ;  
BackStyle = 0, ;  
Caption = "Quantity Purchased", ;  
Height = 22, ;  
Left = 298, ;  
Top = 83, ;  
Width = 131, ;  
TabIndex = 26, ;  
ForeColor = RGB(255,0,0), ;  
Name = "lblQty"
```

```
ADD OBJECT combo1 AS combobox WITH ;  
FontName = "Times New Roman", ;  
ColumnCount = 0, ;  
ColumnWidths = "", ;  
RowSourceType = 1, ;  
RowSource = "100 UNITS,200 UNITS,400 UNITS,1000 UNITS", ;  
ControlSource = "m.Cards_sold", ;  
FirstElement = 1, ;  
Height = 23, ;  
Left = 142, ;  
NumberOfElements = 0, ;  
TabIndex = 3, ;  
Top = 83, ;  
Width = 133, ;  
Name = "Combo1"
```

PROCEDURE Init

```
THISFORM.SETALL("readonly",.T.,"textbox")  
THISFORM.SETALL("readonly",.T.,"editbox")  
THISFORM.SETALL("readonly",.T.,"combobox")
```

```
PUBLIC xquant
xquant = 0
ENDPROC
```

```
PROCEDURE txtcentre_name.Valid
*publ cname
*cname = this.value
ENDPROC
```

```
PROCEDURE txtsdate.Valid
*publ ddate
*ddate = this.value
ENDPROC
```

```
PROCEDURE txtstock_bal.Valid
store 0 to stock_bal
ENDPROC
```

```
PROCEDURE cmdadd.Click
IF USED("tsales")
    SELE tsales
ELSE
    SELE 0
    USE tsales
ENDIF
IF THIS.CAPTION = "\<Add"
    THISFORM.SETALL("readonly",.F.,"textbox")
    THISFORM.SETALL("readonly",.F.,"editbox")
    THISFORM.SETALL("readonly",.F.,"combobox")
    THISFORM.SETALL("ENABLED",.F.,"COMMANDBUTTON")
    THISFORM.cmdclose.ENABLED = .T.
    THIS.ENABLED = .T.
    SCATTER MEMVAR MEMO BLANK
    ThisForm.txtCentre_name.SETFOCUS
    THIS.CAPTION = "\<Save"
    THISFORM.REFRESH
ELSE
    INSERT INTO tsales FROM MEMVAR
    THIS.CAPTION = "\<Add"
    THISFORM.SETALL("readonly",.T.,"textbox")
    THISFORM.SETALL("readonly",.T.,"editbox")
    THISFORM.SETALL("readonly",.T.,"combobox")
```

```
        THISFORM.SETALL("ENABLED",.T.,"COMMANDBUTTON")
    ENDIF
ENDPROC
```

```
PROCEDURE cmddelete.Click
    USE
    USE tsales IN 0 EXCL AGAIN
    ans = MESSAGEBOX("This Record is about to be Deleted, Proceed?", 4
+ 32,"Warning")
    IF ans = 6
        IF !EOF()
            DELETE
            PACK
        ELSE
            MESSAGEBOX("End of File Encoutered", 0 +
64,"Warning")
        ENDIF
    ENDIF
    SCATTER MEMVAR MEMO
    THISFORM.REFRESH
ENDPROC
```

```
PROCEDURE cmdmodify.Click
    IF USED("tsales")
        SELE tsales
    ELSE
        SELE 0
        USE tsales
    ENDIF
    IF THIS.CAPTION = "\<Modify"
        THISFORM.SETALL("readonly",.F.,"textbox")
        THISFORM.SETALL("readonly",.F.,"editbox")
        THISFORM.SETALL("readonly",.F.,"combobox")
        THISFORM.SETALL("ENABLED",.F.,"COMMANDBUTTON")
        THISFORM.cmdclose.ENABLED = .T.
        THIS.ENABLED = .T.
        THIS.CAPTION = "\<Save"
        THISFORM.REFRESH
    ELSE
        GATHER MEMVAR MEMO
        THIS.CAPTION = "\<Modify"
        THISFORM.SETALL("readonly",.T.,"textbox")
        THISFORM.SETALL("readonly",.T.,"editbox")
        THISFORM.SETALL("readonly",.T.,"combobox")
    ENDIF
ENDPROC
```

```
        THISFORM.SETALL("ENABLED",T, "COMMANDBUTTON")
    ENDIF
ENDPROC
```

```
PROCEDURE cmdclose.Click
    THISFORM.RELEASE
ENDPROC
```

```
PROCEDURE cmdfirst.Click
    IF USED("tsales")
        SELE tsales
    ELSE
        SELE 0
        USE tsales
    ENDIF
    IF !BOF()
        GO TOP
    ELSE
        MESSAGEBOX("This is the First Record", 0 + 64, "Warning")
    ENDIF
    SCATTER MEMVAR MEMO
    THISFORM.REFRESH
ENDPROC
```

```
PROCEDURE cmdnext.Click
    IF USED("tsales")
        SELE tsales
    ELSE
        SELE 0
        USE tsales
    ENDIF
    IF !EOF()
        SKIP 1
    ELSE
        MESSAGEBOX("This is the Last Record", 0 + 64, "Warning")
    ENDIF
    SCATTER MEMVAR MEMO
    THISFORM.REFRESH
ENDPROC
```

```
PROCEDURE cmdlast.Click
    IF USED("tsales")
```



```

        SELE tsales
ELSE
        SELE 0
        USE tsales
ENDIF
IF !EOF()
        GO BOTTOM
ELSE
        MESSAGEBOX("This is the Last Record", 0 + 64, "Warning")
ENDIF
SCATTER MEMVAR MEMO
THISFORM.REFRESH
ENDPROC

```

```

PROCEDURE cmdprevious.Click
IF USED("tsales")
        SELE tsales
ELSE
        SELE 0
        USE tsales
ENDIF
IF !BOF()
        SKIP -1
ELSE
        MESSAGEBOX("This is the first Record", 0 + 64, "Warning")
ENDIF
SCATTER MEMVAR MEMO
THISFORM.REFRESH
ENDPROC

```

```

PROCEDURE txtqty.Valid
PUBL soldcard, ddate, cname
cname = ThisForm.txtCentre.name.value
soldcard = THISFORM.combo1.VALUE
ddate = THISFORM.txtsdate.VALUE

USE tregister AGAIN
GO TOP
LOCATE FOR (ALLT(centre_name) = allt(cname) AND ;
        regdate = ddate AND ALLT(card_units)= allt(soldcard))
IF FOUND()
        STORE quantity TO xquant
ELSE
        WAIT WIND "Not Found" TIME 2

```

ENDIF

m.stock_bal = xquant - THIS.VALUE
scatter memvar memo
THISFORM.REFRESH

ENDPROC

PROCEDURE combo1.Valid

*PUBL soldcard
*soldcard = THIS.VALUE

*THISFORM.REFRESH

ENDPROC

ENDDEFINE

*

*-- EndDefine: form1

COMPUTERISATION OF NITEL PHONE CARD SALES RECORD SYSTEM

EXCHANGE AREA CARD ANALYSIS

25/06/2001

Centre Name	Date	Quantity Collected				Cards Sold				Stock Balance			
		100	200	400	1000	100	200	400	1000	100	200	400	1000
SO CENTRE	12/04/2001	20	30	40	50	0	12	20	35	20	18	20	15
IL CENTRE	12/04/2001	100	80	60	40	24	30	25	12	76	50	35	28
CENTRE	12/04/2001	20	40	10	15	5	5	7	0	15	35	3	15
BUSSA	12/04/2001	200	30	50	45	12	4	7	8	188	26	43	37
JA	12/04/2001	120	50	35	80	9	15	0	20	111	35	35	60
Total						50	66	59	75	410	164	136	155

**COMPUTERISATION OF NITEL
PHONE CARD SALES RECORD SYSTEM**

EXCHANGE AREA CARD ANALYSIS

26/04/01

Centre Name	Date	Cards Sold				Stock Balance			
		100	200	400	1000	100	200	400	1000
BOSSO CENTRE	12/04/01	0	12	20	35	20	18	20	15
MOBIL. CENTRE	12/04/01	24	30	25	12	76	50	35	28
FUT CENTRE	12/04/01	5	5	7	0	15	35	3	15
NEW BUSSA	12/04/01	12	4	7	8	188	26	43	37
SULEJA	12/04/01	9	15	0	20	111	35	35	60
Total		50	66	59	75	410	164	136	155

**COMPUTERISATION OF NITEL
PHONE CARD SALES RECORD SYSTEM**

DAILY REGISTER REPORT

26/04/01

Centre Name	Date	Quantity Collected			
		100 Units	200 Units	400 Units	1000 Units
BOSSO CENTRE	12/04/01	20	30	40	50
MOBIL CENTRE	12/04/01	100	80	60	40
NEW BUSSA	12/04/01	200	30	50	45
SULEJA	12/04/01	120	50	35	80
FUT CENTRE	12/04/01	20	40	10	15
Total		460	230	195	230

EXCHANGE AREA DAILY BANK TRANSACTIONS

04/01

Date	Centre Name	Total Collection	Amount on PIS	PIS Number	Date Banked	Remarks
12/04/01	BOSSO CENTRE	50000.00	50000.00	123	13/04/01	OK
12/04/01	BOSSO CENTRE	5000.00	5000.00	1111111	12/04/01	OK
12/04/01	BOSSO CENTER	50000.00	50000.00	J66621	13/04/01	A JOB WELL DONE
12/04/01	MOBIL CENTER	25800.00	25800.00	J66622	13/04/01	GOOD
12/04/01	MOBILE CENTER	34900.00	34900.00	J66623	13/04/01	GOOD
12/04/01	NEW BUSSA	55500.00	55500.00	J66624	13/04/01	SEEN
12/04/01	SULEJA	45800.00	45800.00	J66625	13/04/01	GOOD
12/04/01	SECTARIAT	62300.00	62300.00	J66626	13/04/01	GOOD
Total		329300.00	329300.00			

Sign:

Checked By Payphone Manager: