# COMPUTERIZATION OF CONTINUOUS ASSESSMENT RECORDS IN UNITY SCHOOLS. A CASE STUDY OF UNITY SCHOOLS IN NIGER-STATE. 

## BY

## MOSES NURHIE


#### Abstract

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE. SCHOOL OF POST GRA DUATE STUDIES, FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA. NIGER STATE. NIGERIA.


# COMPUTERIZATION OF CONTINUOUS ASSESSMENT RECORDS IN UNITY SCHOOLS. A CASE STUDY OF UNITY SCHOOLS IN NIGER-STATE. 

BY

MOSES NURHIE

$$
\begin{aligned}
& \text { B.Sc, PGDPA, PGDE. M.Sc } \\
& \text { PGD/MCS/043 }
\end{aligned}
$$

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE. FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA. NIGER STATE.

# COMPUTERIZATION OF CONTINUOUS ASSESSMENT RECORDS IN UNITY SCHOOLS. A CASE STUDY OF UNITY SCHOOLS IN NIGER-STATE. 

BY

MOSES NURHIE

A PROJECT IN THE DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE SUBMITTED TO THE POSTGRADUATE SCHOOL IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE POST GRADUATE DIPLOMA IN COMPUTER SCIENCE OF THE FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA, NIGER STATE.

## CERTIFICATION

This is to certify that this work was carried out by Moses Nurhie in the Department of Mathematics/Computer Science, Federal University of Technology, Minna.

This work has not been done or submitted elsewhere for another or similar purpose and all references are fully acknowledged.

HEAD OF DEPARTMENT
(DR. K. R. ADEBOYE)

SUPERVISOR

## DEDICATION

TO MY WIFE

## ACKNOWLHEIDGEMMENIT

It is the pleasure of the writer to acknowledge those persons who have helped to bring this project to fruition.

The writer is immensely grateful to the project supervisor, Mr. Y.M. Aiyesimi whose guidance, supervision, patience, suggestions and encouragement made this study possible.

The writer also grateful to our hardworking Head of department, Dr. K.R. Adeboye for his advice and encouragement during the period of the programme.

Also, the researcher is most grateful to the course co-ordinator for wise counselling during the period of the programme.

The researcher is particularly grateful to his wife, Mrs Comfort Nurhie, to whom I dedicate this project, for her love, support, and understanding during the period of the study.

A special note of thanks goes to Captain Isah for his wonderful support, counsel and friendship.

## TABLE OF CONTENTS

## CONTENT

## PAGE

TITLE PAGE ..... i
CERTIFICATION ..... ii
DEDICATION ..... iii
ACKNOWLEDGEMENT ..... iv
CHAPTER ONE
1.0 INTRODUCTION
.Background to the study ..... 1
.Purpose of study ..... 4
.Scope ..... 6
.Methodology ..... 8
.Definition of terms. ..... 9
CHAPTER TWO
. Review of Present System ..... 10
. History of Computer in Education ..... 13

## CHAPTER THREE

## SYSTEMS ANALYSIS AND DESIGN

. Description of the Present System. ..... 31
. Presentation, Analysis and Data Interpretation ..... 34
. Observation on the Existing system ..... 36
CHAPTER FOUR
PROGRAMMING
. Design of the proposed System ..... 38
. System Requirement ..... 44
. System Testing ..... 44
. System Conversiion ..... 44
. Maintenance \& Review ..... 45
CHAPTER FIVE
. Conclusion ..... 46
. Recommendation ..... 48
. Bibliography ..... 50
. Appendix

## CHAPTER ONE

## INTRODUCTION

### 1.1 Background to the Study

The National Policy on Education approved (1977) by the Federal Government of Nigeria, laid strong emphasis on the use of continuous assessment at all levels of education in preference to the old practice of single external examination at the end of each level of education.

Continuous assessment may be viewed as a method of finding out what the pupil has gained from learning activities in terms of knowledge, thinking and reasoning, character development and industry. Continuous assessment is defined as a mechanism whereby the final grading of a student in the cognitive, affective and psychomotor domains of behaviour takes account in a systematic way, of all his performances during a given period of schooling.

Prior to the institution of the continuous assessment, the secondary schools in the country based their assessment and promotion of learners on the results of the promotion examinations that usually came up at the end
of each academic session. Through the result of such one-shot examinations, summary judgements were passed on the child's learning and achievement.

While teachers taught almost exclusively for the purpose of passing these examinations and students started with cheating of diverse sorts to pass the examinations, more daring learners, usually the more insecure students went all out for live papers. According to MKPA, this was the genesis of the large-scale examination malpractice which characterised the years between 1970 and 1978 in the history of Nigerian education. ${ }^{1}$

Prior to this time, the idea of continuous assessment had been muted at the curriculum conference of 1969. It would seem, however, that the alarming rate at which examination leakages and malpractice gathered momentum during the decade, $1970-1980$ inspired the recommendation in the national Policy on Education first published in 1977 and revised in 1981 that continuous assessment should be started for the educational programme at all levels.

It is expected that if the continuous assessment is adopted, not only will much of the current examination malpractice be largely eliminated but in addition more meaningful learning will result. The overall portrait of a

[^0]pupil's performance can be presented more reliably, more comprehensively, and more systematically.

An important aspect of continuous assessment is the process as well as the practice of keeping records of children's achievements as they are scored and graded and according to the weighing given to each component area that has been assessed.

There are a number of problems with operating continuous assessment. The following are the major problems.
.Since the performance of each student over a long period need to be combined to get final assessment, accurate records must be kept for continuous assessment to be meaningful, there has to be meticulous keeping of accurate records on each pupil. The system therefore demands extra effort on the part of the teacher not only to use a larger number of assessments but also to keep more copious records.
.Since teachers assess their own students, it is difficult to know if the standards of all assessments are the same. Besides purely technical problems of differences in the difficulty levels of the assessment instruments and in the grading procedure, there may be personal biases entering into the grades produced.
.Combining scores from different assessments poses technical problems
in the sense that the scales used in the different assessments are inevitably not the same.

These problems can be overcome to a large extent through a number of measures. One of them is through the use of computers. The attempt made in this project is to examine how this can be achieved.

### 1.2 Purpose of the study

An important aspect of continuous assessment is the process as well as the practice of keeping the records of children's achievement as they are scored and graded, and according to the weighing given to each component area that has been assessed. This project concentrates on that process/practice. The main aim or objective of this project is to examine how computers can be used for record keeping and reporting. The main types of records for continuous assessment which are
.Teacher's class/school record
.Pupils Cumulative record .the transcript are described and examples of each given.

The project shall examine how computers can be used for recordkeeping and the continuity of records. for continuous assessment to be
meaningful, there has to be meticulous keeping of accurate records on each pupil. Second, since these records are expected to be cumulative from class to class and from school to school, there is need for uniformity in the kinds of records kept and the format for keeping such records. There is therefore the problem that the educational system must expect several thousands, perhaps millions, of teachers to keep accurate records with a more or less uniform format. Third, the fact that a child even within the same level of education may move from one school to another, for example, if the parents are transferred to another town, demands that a mechanism must be evolved to ensure that the records of the child from one school can be transferred to another without removing those records from the firs school. The project shall examine how this can be done.

Finally, the project examines the methods of scoring, grading and weighing. a lot of schools in Nigeria report only the raw score. For instance, a pupil's permanent record or the report card sent to his parents might contain the entry elementary mathematics: 60'. The collateral information that gives 60 its full meaning is not reported and in such a case, a parent can only make the assumption that 60 in mathematics is the same as 60 in History.

Some schools in addition to the pupils' mark, report the class average
or the pupils place in the order of merit. Even so, it will not be an easy task for the parent to decide how much better or worse is 60 in mathematics than 60 in History. Attempt will be made to examine types of scales(percentile ranks, standard scores etc) and computing guides. Computers can be used to ease this work for the teacher.

The project addresses itself to how computers can be used to implement continuous assessment policy in secondary schools with particular reference to Unity School in Nigeria.

### 1.3 Scope of Study.

The micro-computer has invaded the classroom in many parts of the world and has recorded a positive impact upon the learners. In the advanced countries of the world, the computer has become an indispensable weapon of development.

In Nigeria, the new 6-3-3-4- system of education is designed to produce junior and senior secondary school graduates who will be equipped with adequate skills that will make them employable in both the private and public sectors of the nation's economy. Since the future of Nigeria, and indeed of the world, depends on modern technology we have to join the rest of the world in the use of computer technology.

It is in consideration of the need to improve the teaching and learning process of our youths that the Federal Government decided to introduce computer education into our secondary school system.

It should be noted, that until recently, there was no official policy on computer education in this country. In December 1987 the Honorable Minister of Education inaugurated a committee to prepare the National Policy on Computer Education as well as provide guidelines and strategies for introducing Computer education on a pilot scale in selected secondary schools where the needed facilities can be provided. since people, hardware, software and other accessories are needed for computer based information system, the Federal Government spent about $\mathbf{N}$ 1 million in the training of the programme's supervisors and acquired the materials needed in fifty selected schools.

Sixty schools were selected to try out computer studies. The schools to try this new curriculum are the 45 Unity Schools and 15 armed Forces secondary schools across the country.

This study is restricted to the Unity schools with particular reference to the Unity schools in Niger State. Each of the Unity Schools in the country has a computer centre that is well equipped. The federal ministry of education has been training some of the mathematics teachers to manage the
computer centres. Such teachers are given study leave with full pay. Every unity school now has a computer expert. However the emphasis is still one theoretical work. The computers are idle most of the time. There are so many aspects of the school system that the computers can be applied to. One of such is the area of continuous assessment.

The study shall be restricted to Unity Secondary Schools in Niger State. And the aspects of continuous assessments that shall be examined include the following:
. Use of computers for record-keeping
. The methods of scoring, grading and weighing.

### 1.4 Methodology

The method adopted in this research began with a review of relevant tests and journals on continuous assessment. The records reviewed were:
written policy manuals
rules and regulations
standard procedures
organisational chart and
other relevant records
These records were examined at the beginning of the system study.

The actual investigation was carried out by the use of both primary and secondary sources of data. The primary sources from where data was collected include: information gathered from the unstructured personal interviews conducted with the principals and teachers of computer science in the Unity Schools

Secondary sources of data utilized for this project includes among others, the review of related literature of various authors, Encyclopedia, Dictionaries, Journals, Magazines, coupled with the information obtained in the operational Handbook on continuous assessment compiled by the Federal Ministry of Education.

### 1.5 Definition of Terms

.Unity Schools. Federal Government owned secondary schook
. Computer. An electronic machine for making calculations, storing and an electronic machine for making calculations, storing and analysing information fed into it and controlling machinery automatically.
. Procedures. These are the steps which unit the whole process and link everything together to produce the desired output.
. Continuous assessment. Is a method of evaluating the progress and achievement of students in educational institutions.

## CHAPTER TWO

## LITERATURE REVIEW

## REVIEW OF PRESENT SYSTEM

This chapter dwells on the description of the present system. It examines the various procedures used in implementing the system. The purpose of doing this is to highlight the problems involved in the present procedure. In a later chapter we shall examine how the computer can be used to overcome such problems and to develop a new system.

According to Ezewu and Okoye continuous assessment can be defined as a systematic and objective process of determining the extent of student performances in all the expected changes in his behaviors, from the day he enters upon a course of study in a continuous and progressive manner to the end of such course of study and a judicious accumulation of all pieces of information derived from this purpose with a view to using them to guide and shape the student in his learning from time to time and to serve as bases for important decisions about the child. ${ }^{2}$

The following are the important aspects of continuous assessment that shall be considered in this review.

[^1]. Record keeping and reporting.
. Scoring, grading and weighing.
The practice of keeping the records of children's achievements as they are scored and graded is an important part of continuous assessment. At the secondary school level in Nigeria, the following three records are usually kept in each school to show the way each child's progress is assessed:
(a) Teacher's class/school Record books;
(b) Pupils cumulative Record card; and
(c) The Transcript.
(a) Teacher's class/school record book.

Every teacher has to keep this for his class. It is a permanent school record book. It contains: detailed scheme of work; diary of daily record of work; and progress reports. The progress reports from the point of view of continuous assessment is the most vital it is designed in such a way that provision is made for
. weekly, monthly or periodic record of the class pupils achievement;
. broad summaries of the pupils' progress at least two times in a term;
. terminal progress reports incorporating, in addition to the academic grades/scores, scores and grades on social development, using a rating
scale.
(b) Pupils Cumulative record card.

It contains most available information on the child year by year throughout the six year stay in the secondary school. Essentially, the cumulative record card should give information on the following:
. personal information about the student
. weekly/periodic report of academic achievement.
. report of terminal examination.
. report of social and physical development/activities.

- yearly summary of progress, including the weighing.

The card is called cumulative records card because the child is expected to use the same card throughout the secondary school period and, with the type of recording in it, parents will be adequately informed about the child's progress and they can, at a glance, compare the child's progress at different periods, since these have been accumulated in the card.
(c) Relative performance of the student.

Schools normally keep a record of raw scores obtained by the child in each subject area. At the secondary school level, the report sheet issued at the end of the term provides for
. the two termly summaries. For this purpose each form master keeps
a mark book into which is recorded the scores of the periodic tests. The average of these scores form the termly summaries for respective halves of the term.
. the end of term examination scores
. the overall average
. scores on the social and physical development/activities (i.e. affective and psychomotor scores).
HISTORY OF COMPUTER IN EDUCATION

### 2.1 CUMULATIVE RECORD CARD (CRC)

Name of School
School's Badge
School's Motto
Etc.
FOR
Name: $\qquad$

Registration Number
Year State School Pupil

## Personal Information

1. Name:
$\qquad$
2. Age: Date of Birth: Aver. Age in class:
3. Place of Birth: Nationality:
4. Sex: Height: Weight:
5. a. Father's Name:
$\qquad$b. Father's Address:
$\qquad$
c. Father's Occupation:
$\qquad$
6. a. Mother's Name:
$\qquad$
b. Occupation:
$\qquad$c. Address:
$\qquad$
7. a. Guardian's Name:
b. Occupation:
$\qquad$
c. Address:
2.2 ACADEMIC PROGRESS REPORT SUMMARIES AND TEST


### 2.3 AFFECTIVE REPORT TERM

|  | Ratings |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Behaviors and Activities. | 5 | 4 | 3 | 2 | 1 |
| Punctuality |  |  |  |  |  |
| Attendance at class |  |  |  |  |  |
| Carrying out assignments |  |  |  |  |  |
| Participation in School activities |  |  |  |  |  |
| Neatness |  |  |  |  |  |
| Politeness |  |  |  |  |  |


| Honesty |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Self Control |  |  |  |  |  |
| Relationship |  |  |  |  |  |
| Helping Others |  |  |  |  |  |
| Sense of responsibility |  |  |  |  |  |
| Obedience |  |  |  |  |  |
| Initiative |  |  |  |  |  |
|  |  |  |  |  |  |

## KEY

$5=$ Excellent
$4=$ Good

$3=$| Fair |
| :--- |
| 2 |
| 1 |$=$ Poor

$1=$ Very Poor
2.4 PSYCHOMOTOR REPORT TERM

| ACTIVITIES |  | RATING |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | 5 | 4 | 3 | 2 | 1 |  |
| Handwriting |  |  |  |  |  |  |
| Public Speaking |  |  |  |  |  |  |
| Games | $2^{1}$ |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 3 |  |  |  |  |  |



KEY
$5=$ Excellent
$4=$ Good
$3=$ Fair
$2=$ Poor
1 V. Poor

The second aspect of Continuous assessment that is vital to this research work is scoring, grading and weighing.

A raw score is the direct numerical report of a person's test performance, e.g. number of questions answered, time required, count of right answers. Raw score can easily be misinterpreted. An examination mark by itself has practically no meaning. The traditional belief that it has an absolute value, so may percentage of a possible 'perfect' performance, is without foundation. All that a mark of 60 percent conveys is that it is one
of a set of marks which have a range within the limits of zero to one hundred. Whether the mark is to be reckoned as 'very good' , 'good' or 'not so good' depends on how 60 is related to other marks made by the class.

In Nigeria, a lot of Schools report only the raw score. For instance, a child's permanent record or the report card sent to his parents might contain the entry'Elementary Mathematics': 60. The collateral information that gives to its full meaning is not reported and in such a case, a parent can only make the assumption that 60 in mathematics is the same as 60 in History.

Some schools, in addition to the pupils mark, report the class average or the child's place in the order of merit. Even so it will not be an easy task for the parents to decide how much better or worse is 60 in mathematics than 60 in History.

In order to overcome the above problems the concept of score scaling was introduced.

Score-Scaling is the process of setting up a scale for the interpretation of test performance by means of a set of numbers based on the performance
of a reference group. The mean and standard deviation of the group are usually assigned arbitrary scale value and other scored provided by the test are then placed on the scale. Foe example, on the T-Score scale, the mean is 50 and the standard deviation is 10

For example, two groups of students were given the same test but their scripts were marked by different teachers. Teacher 1 who marked the scripts of group 1 gave a wide range of marks 5 to 95 while Teacher 2 who marked the scripts of Group 2 awarded marks on a restricted range so that the students were bunched together. The marks awarded by the teacher ranged from 20 to 50. This is illustrated below.

| Teacher 1 | 5 | 95 | Group 1 |
| :---: | :---: | :---: | :---: |
| Teacher 2 | 20 | 50 | Group 2 |

When an independent marker, Teacher 3 graded the scripts of both groups the distribution of scores in the two groups demonstrated that the groups were of comparable ability. The marks awarded ranged from 15 to 75 and the situation for the groups is as follows.

| Teacher | 15 | 75 | $G r o u p ~$ |
| :--- | :--- | :--- | :--- |

$15 \quad 75 \quad$ Group 2
If we project the above case to the University situation, we would
discover that using the marks awarded by Teacher 1 and 2 above to put students into classes(i.e. 1st and 2nd, and Pass) There will, for instance, be first class degree holders in group 1 whereas these would be name in Group 2. this we know, of course, is not as a result of differences in ability of the groups but because we have subjected the two groups to different standards(scales) of grading. If the third teacher's standard (scale) were used, the distribution of students into classes would be the score in both groups. That is, expressing the marks of the students on a common scale has enabled us to make a fair comparison of test scored between the two groups. In essence, therefore, interpretation and comparison of test scores obtained from different tests within the same group become easy to make when all scores are referred to a common scale. Scores expressed on a common scale are called scaled score.

Three types of scaled scores are considered; Percentile ranks, standard scores and stanines.
2.4.2. Percentile Ranks.

Ranking scores from highest to lowest is the easiest way to make comparisons. reporting that a person stands 3rd aut 40 conveniently states his position relative to others. However, ranks depend on the number of
persons in the group,so if we wish to examine change in standing from one occasion to another we have difficulty because the size of the group changes. To avoid difficulties, ranks are changed to percentile scores. a person's percentile rank tells what proportion of the group falls below him. For example, suppose there are 40 person, 2 superior to $A$ and 37 poorer. Then we arbitrarily divide case A between the two groups, saying that 21/2 cases are above him and $371 / 2$ below. Since $371 / 2$ is 94 percent of 40 . A's percentile score is 94. By this method of computation the person exactly in the middle of the group is at the 50th percentile also called the median. The median can be thought of as the performance of a typical person in the group.
2.4.3

Standard Scores.
It is often difficult to compare scores from tests of unequal lengths (here, different tests on the same subject matter) unless we convert the raw scores to a common scale. Instead of percentile ranks, a standard scores scale based on the mean and standard deviation is used. For the continuous assessment system, the t -score scale is used. On this scale, the mean and standard deviation of scaled scores are set equal to 50 and 10 respectively. Thus, if a given raw score is, say 2 standard deviation above(below) the
mean, its equivalent T-score is $70(30)$.
The scale that gives the number of standard deviations a score away from the mean is the Z-Score scale otherwise known as the Zero one' scale

$$
\text { Z-Score }=\frac{\text { Raw Score - Mean }}{\text { Standard deviation }}
$$

$$
Z=\frac{X-M}{S D}
$$

Suppose mean and standard deviation of a given set of raw scores to be 33 and 3 respectively, then for raw score 40

$$
\begin{aligned}
Z=\frac{40-33}{3} & =\frac{7}{3} \\
& =2.33
\end{aligned}
$$

The formula for converting raw scores to T-scores is stated as

$$
\mathrm{T} \text { - Scores }=10 Z+50
$$

Assume Mean $(M)=33.2 ; S D+9.80$
For raw score 50:

$$
\begin{aligned}
Z=\frac{50-33.2}{9.80} & =\frac{16.8}{9.80} \\
& =1.7 \\
T=5-+10(1.7) & =67
\end{aligned}
$$

To ease the work of the classroom teacher, computers can be used to carry out such computations.

### 2.4.4 .STANINES

A stanine scale is an approximately normal transformation with a mean of 5 and standard deviation of 1 . Stanines are represented as number grades ranging from 1 to 9 . Stanines are obtained by ordering a set of scores from the lowest to the highest, assigning the lowest 4 percent a score of 1 , the next lowest a score of 2 and continuing the process until the top 4 percent receives a score of 9

The west African Examinations council uses a reviewed stanine scale for the school certificate and General Certificate of Education Examinations whereby 1 represents the highest subject grade and 9 the poorest.

### 2.4.5 .WEIGHING

Weighing refers to specifying of the relative contributions of the various sections of a test or various tests in a given record to obtain the total score. The weights are the numbers indicating the relative contributions of the various tests or various sections of a test. The following example demonstrates the need to weight test scores appropriately in the process of combining them to obtain the total score.

For Example, two courses in mathematics offered at a University were assigned four and two units respectively. The tests given at the end of the
term contained the same number of questions and raw scores on each test could range from 0 to 100. Two students obtained scores on the courses as follows:Student A4070
Student B ..... 50 ..... 60

By the assignment of units to the course, we note that the 10 by which student $B$ beat student $A$ on Course 1 is superior to the 10 by which student A beat Student B on course 2. Hence, we conclude that student B's overall performance is superior to the performance of student $A$.

If our task is to obtain an overall score for each student and we take the ordinary average, both students would obtain an average score of 55 each. By the foregoing analysis the ordinary average of 55 does not reflect the superior performance of $B$ to that of $A$. If the contributions of the courses are assigned in proportion to the units assigned in proportion to the units assigned to the courses, i.e. in the ratio 4:2, then A,s weighted average would be

$$
\frac{4(40)+2(70)}{4+2}=6 \frac{300}{=50}
$$

Similarly B's weighted average is 53.3. These last result match our expectations that $B$ is superior to $A$ in overall performance and we realised this by assigning appropriate weights to marks obtained in each course.

### 2.4.6

## CALCULATING THE MEAN

The mean is the score which each student will have if all the scores were added together and shared equally among them. The mean is the sum of all the scores divided by the total number of cases.

$$
M=\frac{E x}{N}
$$

Many teachers are already familiar with the mean although they probably refer to it as the average.

The mean can be used for describing the performance of a class in a test. Thus, if two classes of five had taken a certain test and one had a mean of 6 while the others had a mean of 8 the impression is that the second class performed better than the first. Suppose five students in a class have the following scores in a test with a maximum of 10 marks.

| Student | Score |
| :--- | :---: |
| Femi | 9 |
| Chike | 8 |
| Bala | 4 |

$$
\begin{aligned}
& \text { Boma } \\
& \text { Udo } \\
& \text { Mean }=9+8+4+3+6 \\
& \frac{30}{5} \\
& =
\end{aligned}
$$

While the five pupils in the example have a means score of 6, their actual scores spread out between 9 and 3 . supposing another 5 students had scores of 7, 6, 6, 6, 5, (total Score 30, mean score $305=6$ ) Both groups have the same mean of 6; but while the first group's scores are spread out the second group scores are all at or close to the mean.

This is a significantly different performance. Thus, to give a good description of the performance of a group, not only must the mean score be given, but also some indication of the 'spread' of scores about the mean. One measure of how spread out a class is from the mean is the standard deviation. One way of expressing how spread out from the mean the scores are is to find the deviation of each score form the mean. The deviation of
each score from the mean is $X-M$ it is often shown by small $x$.
For the example about the deviations would be as follows:

| Student | Score $(\mathrm{x})$ | Deviation(d) |
| :--- | :--- | :--- |
| Femi | 9 | $(9-6)=3$ |
| Chike | 8 | $(8-6)=2$ |
| Bala | 4 | $(4-6)=-2$ |
| Boma | 3 | $(3-6)=-3$ |
| Udo | 6 | $(6-6)=0$ |

To get rid of the negative signs, each deviation is squared. To get an estimate of the mean deviation, these squared deviations are added up, divided by the number of cases and the square root of the result is found. The number so obtained is called the standard deviation.

| Student | $X$ | $x$ | $x^{2}$ |
| :--- | :--- | :--- | :--- |
| Femi | 9 | 3 | 9 |
| Chike | 8 | 2 | 4 |
| Bala | 4 | -2 | 4 |
| Boma | 3 | -3 | 9 |
| Udo | 6 | 0 | 0 |
|  |  |  | 26 |
| dard deviation | $=$ |  |  |

## 5

The formula for standard deviation therefore is:

$$
S=E x^{2}
$$

n

### 2.4.7 .THE USE OF PROFILES.

Using the T-score or percentile rank, a pictorial representation of a students performance in various subjects may be produced. Such pictorial or graphical representations are called profiles. suppose a JSS1 Student Abdul, has the following percentile ranks in 10 subjects

Subject
Percentile rank

1. English Language97
2. Mathematics ..... 76
3. Integrated Science ..... 92
4. Social Studies ..... 59
5. Fine Art ..... 50
6. Technical Drawing ..... 86
7. Music ..... 97
8. Physical \& Health Educ. ..... 83
9. Hausa ..... 70
10. Yoruba ..... 69
His profile will be as shown below100908070605040302010

The figure shows that Abdul has a high standing in most subjects. In social
studies and fine Art, he is an average student. His most outstanding performances are in English Language, Integrated Science and Music. For guidance purposes, Abdul can cope with either a scientific an technological career or a literary career. Changes in profile from one year or term to another may also be used for diagnosing problems of the student.

From the foregoing discussions we observed the complex mathematical computations involved in implementing continuous assessment system. Most schools do not treat the various aspects of the continuous assessment because of the complex calculations involved. The computers can be used to overcome this problem. simple programs can be written and complex graphs can be drawn using computers. The aim of this research work is to examine how the various aspects of continuous assessments can be computerized.

## CHAPTER THREE

## DESCRIPTION OF THE PRESENT SYSTEM.

The focus of this chapter is on the description of the present system. It examines the procedures adopted in the conduct of this study. The chapter describes the following:-
.Population
.Sample Size
.Data collection - instrumentation
.Presentation, analysis and data interpretation.
.Observation about the existing system.

### 3.1 POPULATION

The various federal secondary schools - Federal government colleges, Federal government Girls Colleges, Queens college, Kings college - which are wholly owned by the federal Government of Nigeria constitute the population. This population was taken because it was at this level that Computer education was first introduced at the secondary level in Nigeria. there was no official policy on Computer Education in Nigeria until December 1987 when the Honorable Minister of education inaugurated a Committee to prepare the National Policy on Computer education as well
as provide guidelines and strategies for introducing computer education on a pilot scale in selected schools where the needed facilities can be provided. The federal government later spent about $\mathbf{N} 1$ million in the training of the programme's supervisors and also acquired the materials needed in fifty selected schools. The selected schools were the Federal Government Colleges in the country. The federal schools also known as the Unity Schools therefore constitute the population of this study.

### 3.2 SAMPLE SIZE

For purpose of convenience, the Unity or Federal Schools in NigerState were taken as sample. It will be unrealistic to cover all the Federal Government Colleges in Nigeria. Financial constraints and limited time made the researcher to limit his research work to Unity Schools in Niger State.

The Unity schools in Niger State include the following:-
.Federal Government College, Minna
.Federal Government Girls College, Bida
.Suleja Academy, Suleja
.Federal Government Girls college, New Bussa.
The above Unity Schools in Niger State add up to make it (sample) a suitable representative sample.

### 3.3 Data collection.

The method adopted in this research began with a review of relevant texts and journals on continuous assessment and computers in education. Statistical data available in the various schools were also used. These served as a background to the study, thus making it to be largely exploratory and at the same time descriptive

The actual investigation was carried out by the use of both primary and secondary sources of data.

The primary sources from where data was collected include information gathered from the structured personal interviews conducted with key officers like the principals, vice principals, and also from the examination officers who are largely responsible for the handling of continuous assessment records.

Personal observation was also employed in conjunction with the interview method.

Secondary sources of data utilized for this report includes among others, the review of related literature of various authors, Encyclopedia, dictionaries, Journals, Magazines, coupled with the information obtained at the Unity Schools and the operational handbook on Continuous assessment by the Federal Ministry of Education. Some of the flaws associated with gathering
data and information from Secondary sources include:

- The objectives of the various authors might differ from that of the researcher
. The personal biases of the authors might affect the accuracy of the researcher's report.

However, the researcher would like to state that references were made to secondary sources of data in order to either substantiate or disprove an argument being put forward in this project.

### 3.4 PRESENTATION, ANALYSIS AND DATA INTERPRETATION.

The main instrument used in carrying out this research was the interview method as earlier mentioned. Based on this instrumentation, the following presentations and analysis were made.

It was observed by the researcher that the important records relating to continuous assessment were kept by the schools. Records like first summary assessment, second summary scores, examination scores were annually carried out by the various form teachers at the end of each term. Summary for each test were collected from the various subject teachers by the form masters of each class. The scores are then compiled in a master
sheet which are handed over to the examination officers or the vice principal(academics) at the end of each term. The various form masters interviewed complained of the tedious nature of the work.

The procedure for modifying students records, modifying 1st assessment scores, and modifying examination scores are very tedious and time consuming. any manual modification of the master result sheet will affect the whole procedure.

There was no arrangements of keeping separate files for each students. You can only extract any information pertaining to any student from the master sheet compiled by the form master. The master sheet do not in most cases carry all the information needed concerning a student. It does not contain personal details about each student. It is not comprehensive enough. To view a students overall result, you have to refer to the master file before you can generate any report concerning a student. it is time consuming and it used to be a problem for the principals when parents come asking for the results of their children/wards. It takes time before such records are usually

### 3.5 OBSERVATION ON THE EXISTING SYSTEM

From the above presentation and analysis, the following observations on the existing system were made.

Since the performance of each student over a long period need to be combined to get a final assessment, accurate records must be kept. The system therefore demands extra effort on the part of the teacher not only to use a larger number of assessments but also to keep more copious records.

Some aspects of the continuous records mentioned in the review of literature were not documented in the schools visited. aspects of the CA records like standard deviation, standard scores, weighted scores, percentile rank etc were not documented.

Enquiring for students records could be time-consuming. If there is a request for a students record all the master sheets are brought out for massive sorting. There was a case of fire outbreak in a particular school. All CA records were lost in that mishap that year. This would have been avoided if such
records were computerized and stored in diskettes.

- It is not all students records that can be computerized. There are some aspects of the CA records that cannot be computerized.

The method of entering records involves too much paper work.

## CHAPTER FOUR

## 4.0

 DESIGN OF THE PROPOSED SYSTEM.Information gathered at this stage is used for designing a new and improved system with the use of electronic data processing system. The new physical design is based on the information gathered on the existing system.

The chapter begins with the description of the proposed system and its hardware requirements.

## 4.1 THE PROPOSED SYSTEM.

The proposed system is made up of a main menu as shown in figure 1 below.

The main menu consists of 6 options.
These are:- subject registration, examination menu, first assessment menu, second assessment menu, report generation menu, and quit menu. At this main menu the system will prompt you to enter the first letter of any of the available options to pick choice. The screen format of this main menu is shown in figure 1.

The attempt made here is to discuss the six main menu in functions

# FEDERAL GOVERNMENT CO <br> COMPUTERISED SSS RESULT 

SUBJECT REGISTRATION MENU
A--Registering New Student
R--Modifying 'Student'Recotd
-Removing Student Record

FIRST ASSESSMENT MENU
Entering 1ST Assessment Scores -Modifying, 1ST Assessment Scores

> E MAMINATION MENU
> D--Entering EXAM Scores
> E--Mor fying EXAM Scores
> P--Vicwing Results

EGE

- MENU
- 

$\qquad$

EECOND ASSESSMENT MENU
I--Entering 2 ND Assessment Scores 5--Modifying 2ND Assessment Scores

$$
\begin{gathered}
\text { Q UIT TING } \\
M-\text { Exitting System }
\end{gathered}
$$

## 1. Subject Registration Menu.

This option enables the users to update the master files containing the records of all the students.

At this menu, another level of options appears on the screen as shown in figure 2 in which the user of the system is expected to pick a choice. Press letters A - M to select a choice. Each of the submenu is discussed briefly below.
A. Registering new students

This submenu will enable the users an opportunity to add new students data in to the system it is made up of two different screens which comes one after the other. The two screens are represented by figure 2 and 3. Figure 2 gives the personal details of each new student into the system. It includes students number, students name, sex age, state of origin, nationality, class code and the school code. This takes as to subject registration of each student. Press any key for subject registration. The second screen (figure 3) shows the student number, student name and the subjects entered for. It has a serial number, subject code and description.
B. Modifying Students Record.

This command makes for changes to be carried out on the personal details of a student. It is also made up of two screens which come one after
SIUDENT NUMBER
FEDERAL COVERNMENT COLLEGE
NEW STUDENT REGISTRATH ON SCREEN
STUDENT NAME
MOHAMMED JALINGO

| NO | . SU'BJECT CODE | DESCRIPTION | S/NO | SUBJECT CODE | DESCRIPTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $\therefore$ SUBO1, | MATHEMATICS | 6 | SUB14 | FRENCH |
| 2 | SUB0.2 | ENGLISH LANG. | 7 | SUB12 | GEOGRAPHY |
| 3 | SUBO4 | PHYSICS | 8 | SUB11 | HISTORY |
| 4 | SUB0.6 | CHEMI STRY | - 9 | SUBO8 | FURTHER MATHS |
| 5 | SUB09 | ECONOMICS |  |  |  |

Press "S" to save or "A" to Abort
the other. The two screens are represented by figures 4 and 5. The student's number is entered in order to locate the record to be modified. The personal details of each student is displayed on the screen for necessary changes to be effected. The same procedure goes for modifying subject registration.

## C. Removing Student Record

This is another option to enable the users remove or delete a particular record from the system. The students number is entered to locate the students record. The user simply presses ' $Y$ ' which stands for yes if the student record is to be removed. The user presses ' N ' for no if the record is not to be removed. With the operations any information can be removed and a new one can be added. This screen is shown in figure 6 below.

## 2. Examination Menu.

This menu consist of three submenu.
d. Entering examination scores.

This option is used to carry out entering of marks or scores into the proposed system. The students number is entered to locate the record of the student on the screen. This is shown in figure 7 below. In the screen shown in figure 7, the students number, name and class appeared on the screen. In this example, Mohammed Jalingo of SS2 scored 45 in mathematics So in English, 30 in physics 35 in Chemistry, 27 in Economics down to 35 in


further Mathematics.
E. Modifying examination scores.

This can be used to modify examination scores. The user may discover some mistakes in the entering of examination scores. It is also possible that the class has performed below average and the user may want to upgrade all scores or marks. In such a situation the user can use, this screen to modify such scores as shown in figure 8.
F. Viewing Results.

This option is used to view the overall result of each student. The student number is entered to locate the record of the student.

## 3.First Assessment Menu

This option consists of two submenu.
This option offers an opportunity to the users enter the first assessment scores. The submenu are as follows:-
G. Entering 1st Assessment scores.

This submenu enables the user to enter the first assessment scores. As usual the student's number is entered to retrieve the records, The scores are then entered. This is shown by figure 10
H. Modifying 1st assessment scores. This submenu enables the uses to modify scores already entered into the system if the need arises. It can be

## NTGER STATE UNITY SCHOOLS

REMOVAL OF STUDENT RECORD SCREEN

PERSONAE DETAILS
STUDENT NUMBER (Enter "999999", to quit): 7654.32
STUDENT NAME: MOHAMMED TALINGQ
SEX AGE STATE OF ORIGI NATIONALTY
M
14.

ADAMAWA
NIGERIAS
CLASS CODE (Enter 1 for SS1, 2 for SSS2, 3 for SS3) 2
ENTER THE STUDENT SCHOOL CODE ?

Repmoving this student record. - To continue (Y/N)


## Press "S" to save or "A" to Abort


used if mistakes were made in the first entry. This is shown by figure 11.

## 4. Second Assessment Menu.

This option consists of two submenu; entering second assessment scores and modifying second assessment scores. These are shown by figure 12 and figure 13 respectively.

## 5. Report Generation Menu.

The user is offered an opportunity to print out any of the reports that is to be generated by this system. Figure 14 below shows the overall report generated for the student Mohammed Jalingo. It shows same aspects of the personal details of the students, the subject registration, the 1st assessment summary, the second assessment summary, the examination scores, the total, and the grade. The moment the student's number is entered, the overall record appears on the screen. The user is then free to pick a choice which represents the type of report to be generated at any particular times.

### 4.2 FILE DESIGN.

File design pertains to the description of all the file that were used in the system. It includes the file contents and the structure. The new system consists of three main file; one is a master file and the other two are reference files. The three are student dbf, sub dft and school dbf. Briefly, the description of the database files are as follows:


(a) Student dbf.

This is a master files. It consists of 44 fields. It contains the personal details of each student like the number, name class code, subject code, sex, age, state and nationality. It contains also the subjects registered for by each student. This is shown by SUB1, SUB2 down to SUB9 which are the nine subjects registered for by each student. The next aspect of the database file is recording of scores in first assessment in all the nine subjects. This is shown by FIRST 9. Then we have SECOND 1 down to SECOND 9; that is, scores obtained in the second assessment by each student in the 9 subjects. This is finally followed by EXAM 1 down to EXAM 9. This is shown by figure 15 below.
(b) SUB dbf.

This is a reference file used for updating the master file. It consist of only 2 fields. The structure of this file is shown in figure 16.
(c) School dbf.

This is also a temporary file used for updating the main database file. It consist of 2 fields and its structure is shown by figure 17.


```
PEDERAL GOVERNMENT COLTEGE, MINNA
```



## GMUDENT REPORT SHEET

ANDIDATE NUMBER: 155432
ANLIDALE NAML: MUMAMVLE UALINGO

SEMES 3R: SECOND


### 4.3 SYSTEM REQUIREMENT

System requirement relates to the type or nature of computer needed for the new system since the new system involves storing a large number of data and information a computer with higher speed and larger storage is required.

### 4.4 SYSTEM TESTING

It is important to be sure that the new system is working accurately before actually using the system. This can be done by using some test data on the new system. This was carried out by the researcher. The new system was tested using some test data on all the modules of the system.

The various programs produced in the appendix are the results of this testing.

### 4.5 SYSTEM CONVERSION.

There are various methods of changing over to a new system. The researcher recommend the parallel change over method. Here, the old and new system are run concurrently using the same inputs. The outputs are compared and reasons for differences resolved. Outputs from the old system continue to be distributed until the new system has proved satisfactory. At this point, the old system is discontinued and the new ones takes its place.

Structure for database：C：student．dbf．
Number of data records：
Date of last update ：01／23／96
「ことさひ Ricla Name Type
NUMBER Charactex 6
2 NA＇ME
.3 CUODE
4 SCODE
Character $\quad 40$

5 SER
Character 1

6 AGE
7 SEATE
8 NATTON
9 SUB1
10 SUB2
1）
12 SUE4
Character 1
$\begin{array}{lr}\text { Character } & 1 \\ \text { Character } & 2\end{array}$
Character 12
Character 20
Character 5
Chaxacter ．． 5
Character 5
Character 5 ．
Character 5
$\begin{array}{lr}\text { Character } & 5 \\ \text { Character } & 5\end{array}$


Mhatacter 5 \％
$\begin{array}{ll}\text { Nomarie } & 4 \\ \text { Numeric } & 4\end{array}$
Numeric 4
Numeric 4
Numeric 4
Numeric 4
Numeric 4
Numeric ． 4
Numeric 4
Numeric ： 4
Numeric $\quad 4 \quad 1$
Numeric ：
＊wimeric 1
Numeric，$\quad \therefore \quad 4 \quad 1$
Numeric 4
Numeric $\quad 4 \quad 1$
Numeric：$\quad 4$
Numeric ： 5
Numeric 5 ．
$\begin{array}{lrl}\text { Numeric } & 5 & 1 \\ \text { Numeric } & 5 & 1 \\ \text { Numeric } & 5 & 1 \\ \text { Numeric } & 5 & 1 \\ \text { Numeric } & 5 & 1 \\ \text { Numeric } & 5 & 1 \\ \text { Numeric } & 5 & 1\end{array}$
＊＊，Total，＊＊ 246

```
    Structure for database: C:sub. dbf
    Number of data records:
    15
    Date of last update :01/19/96
Field Field Name Type Width
        1 SUBCODE & Character " 5
        2 SUR Character 16
    ** Total **
                                    22
                                    (1)
Structure for database: C:school.dbf
Number of data records:
Date of last update : 01/24/96
Field Field Name Type. Width Dec 1 SCODE : . Character 1
' 2 SDBSC Character 40
** Total **
42
```


### 4.6 MAINTENANCE AND REVIEW.

Provision must be made for a review of the system from time to time. This is an important aspect of the implementation process. Once a system is implemented and in full operation it is examined to see if it has met the objectives set out in the original specification. From time to time the requirement of the organisation will change and the system will have to be examined to see if it can cope with the changes.

## CHAPTER 5

## CONCLUSION AND RECOMMENDATION

The last chapter of this project dwells on conclusion and recommendation. The conclusion is based on the findings in the project work.

### 5.1 Conclusion

The Federal Government colleges derive the following benefits from this newly designed system.

- $\quad$ Since the performance of each students over a long period need to be combined to get a final assessment, accurate records must be kept. The system therefore demands extra effort on the part of the teacher not only to use a larger number of assessments but also to keep more copious records. Computers can aid in the storage of such copious records.
- Enquiring for students records would be faster. In the old system enquiring for students records could be time-consuming. If there is a request for a students record, all the master sheets
are brought out for sorting which is time-consuming.
Changes can be done easily in the new system. The user of the system may want to introduce or make some changes. This can be done easily. The user can delete records, add records or modify records.

The user is also offered an opportunity to print out any of the reports that is to be generated by this system. The moment the student's number is entered, the overall record of a student appears on the screen. The user is then free to pick a choice which represents the type of report to be generated at any particular time.

Continuous assessment records involve a lot of calculation.
Manual calculation leads to errors. The new system is designed to eliminate this problem. The computer is a calculating machine which can be used to carry out this exercise more efficiently than the manual method.

### 5.2 Recommendation

From the analysis of data in this project, the following are the researcher's recommendations.

- Attention should be directed towards the training of staff to handle the new system. Presently few mathematics teachers are involved in the handling of computers in the selected unity schools. They are not trained and such people cannot handle the new designed system.
- It is also recommended that continuous assessment results should be computerised. Continuous assessment involves the keeping of copies records. Such records should be computerised to make for efficient storage and retrieval of such records.
- Attempt should be made to introduce computer education in state schools also.

In Nigeria, the new 6-3-3-4- system of education is designed to produce junior and senior secondary school graduates who will be equipped with adequate skills that will make them employable in both the private and public sectors of the nations economy. Since the future of Nigeria, and
indeed of the world, depends on modern technology we have to join the rest of the world in the use of computer technology. In practical terms the computer is put into many uses in the learning process. Thus it instructs, evaluate, response, score and access the quality of performance.

## BIBLIOGRAPHY

1. Federal Republic of Nigeria, National Policy On Education, Lagos: NERC Press, 1981
2. Federal Ministry of Education, A handbook on Continuous Assessment, Lagos
3. Ehiametalor, E.T. Implementation of National Policy on Education, Benin:NERA 1989
4. NDU A et al, Educational Policy and Implementation in Nigeria Awka: NAEAP 1992.
5. RADLOW, J., Computers and the Information Society New York: McGraw-Hill Co 1986
```
set talk off
set scor off
set stat off
set safe off
set date brit
do whil .t.
    clea
    e 0,0 to 24,79 doub
    @ 3,1 to 3,78 doub
    e 4,2 to 9,37
    @ 4,42 to 9,77
    @ 11,2 to 15,37
    @ 11,42 to 15,77
    e 17,2 to 21,37
    @ 17,42 to 21,77
    @ 22,1 to 22,78 doub
    @ 1,27 say 'FEDERAL GOVERNMENT COLLEGE'
    @ 2,25 say 'COMPUTERISED SSS RESULTS - MENU'
    @ 5,3 say 'SUBJECT REGISTRATION MENU'
    e 6,3 say 'A--Registering New Student'
    @ 7,3 say 'B--Modifying Student Record'
    e 8,3 say 'C--Removing Student Record'
    @ 5,48 say 'EXAMINATION MENU'
    @ 6,43 say 'D--Entering EXAM Scores'
    @ 7,43 say 'E--Modifying EXAM Scores'
    e 8,43 say 'F--Viewing Results'
    @ 12,8 say 'FIRST ASSESSMENT MENU'
    e 13,3 say 'G--Entering 1ST Assessment Scores'
    @ 14,3 say 'H--Modifying 1ST Assessment Scores'
    @ 12,48 say 'SECOND ASSESSMENT MENU'
    @ 13,43 say 'I--Entering 2ND Assessment Scores'
    @ 14,43 say 'J--Modifying 2ND Assessment Scores'
    @ 18,4 say 'REPORT GENERATION MENU'
    e 19,3 say 'K--Student Report Sheet'
    @ 20,3 say 'L--Change Semester/Session'
    @ 18,47 say 'Q U I T T I N G'
    @ 20,43 say 'M--Exitting System'
    @ 23,21 say 'Press LETTER (A-M) to select choice:'
        do whil .t.
            choice=, '
            @ 23,58 Ret choice pict '!'
            read
                if choice $ 'ABCDEFGHIJKLM'
                exit
            endi
        endd
        do case
            case choice= 'A'
                do PA
            case choice= 'B'
                do PB
            case choice= 'C'
                do PC
            case choice= 'D'
                do PD
```

```
        case choice= 'E'
        do PE
        case choice= 'F'
        do PF
        case choice= 'G'
        do PG
    case choice= 'H'
        do PH
    case choice= 'I'
        do PI
    case choice= 'J'
        do PJ
    case choice= 'K'
        do PK
    case choice= 'L'
        do PL
    otherwise
        exit
        endcase
    endd
    clea
    retu
** pa.prg*/*
set talk off
sele 1
    use student
sele 2
    use sub
do whil ,t.
    clea
    sele 1
    go top
    @ 1,10 to 23,69 doub
    @ 20,11 to 20,68 doub
    @ 2,27 say 'FEDERAL GOVERNMENT COLLEGE'
    e 3,27 to 3,52 doub
    @ 5,24 say 'New Student Registration Screen'
    e 6,24 to 6,54 doub
    @ 8,11 say 'PERSONAL DETAILS,
    @ 9,11 to 9,26
    mnumber=spac(6)
    @ 10,14 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if found()
        @ 22,16 say 'Student Number Exists - Press any key to
continue'
        set cons off
        wait
        set cons on
        loop
```

```
        endi
    mname=spac(40)
    mstate=spac(12)
mnation=spac(20)
mage=spac(2)
stor , to mccode,msex,mscode
    s t o r s p a c ( 5 )
msub1,msub2,msub3,msub4,msub5,msub6,msub7,msub8,msub9
first1, first2, first3, first4, first5, first6, first7, first8, first9
second1, second2, second3, second4, second5, second6, second7, second
8, second9
    stor 0 to exam1, exam2, exam3, exam4, exam5, exam6, exam7, exam8, exam9
    @ 12,14 say 'STUDENT NAME:' get mname pict '@!'
    @ 14,14 say 'SEX'
    @ 14,21 say 'AGE'
    @ 14,28 say 'STATE OF ORIGIN'
    @ 14,52 say 'NATIONALITY'
    @ 15,15 get msex pict '!'
    @ 15,21 get mage
    @ 15,29 get mstate pict '@!'
    @ 15,48 get mnation pict '@!'
    @ 17,14 Say 'CLASS CODE (Enter 1 for SS1, 2 for SS2, 3 for
SS3)' get mccode
    @ 19,23 say "ENTER THE STUDENT SCHOOL CODE" get mscode
    read
    @ 22,21 say 'Press any Key for Sub,ject Registration'
    set cons off
    wait
    set cons on
    clea
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,27 say 'FEDERAL GOVERNMENT COLLEGE'
    @ 2,27 to 2,52 doub
    @ 4,24 SAY 'NEW STUDENT REGISTRATION SCREEN'
    @ 5,24 to 5,54 doub
    @ 7,5 say 'STUDENT NUMBER'
    @ 7,34 say 'STUDENT NAME'
    @ 8,9 get mnumber
    @ 8,28 get mname
    clea gets
    @ 10,1 to 10,78
    @ 11,40 to 21,40
    @ 11,2 say 'S/NO SUBJECT CODE DESCRIPTION'
    @ 11,42 say 'S/NO SUBJECT CODE DESCRIPTION'
    @ 12,1 to 12,39
    @ 12,41 to 12,78
    @ 13,3 say '1,
    sele 2
    do whil .t.
        @ 13,11 get msub1 pict '@!'
        read
        go top
        loca for subcode=msub1
        if not. found()
            @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
```

```
                            @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
continue,
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub1=spac(5)
            loop
        endi
        desc1=sub
        @ 13,22 get desc1
        clea gets
        exit
    endd
    @ 15,3 say '2'
    do whil .t.
        @ 15,11 get msub2 pict '@!'
        read
        go top
        loca for subcode=msub2
        if not. found()
            @ 23,14 say 'Subject Code is Invalid - Press any key to
continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub2=spac(5)
            loop
        endi
        descl= sub
        @ 15,22 get desc1
        clea gets
        exit
    endd
    @ 17,3 say '3'
    do whil .t.
        @ 17,11 get msub3 pict '@!'
        read
        go top
        loca for subcode=msub3
        if not, found()
            @ 23,14 say 'Subject Code is Invalid - Press any key to
    continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub3=spac(5)
            loop
        endi
        desc1= sub
        @ 17,22 get desc1
        clea gets
        exit
    endd
    @ 19,3 say '4,
    do whil .t.
```

```
    @ 19,11 get msub4 pict '@!'
    read
    go top
    loca for subcode=msub4
    if , not, found()
    @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
    continue,
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub4=spac (5)
            loop
        endi
        descl= sub
        @ 19,22 get desc1
        clea gets
        exit
        endd
        @ 21,3 say '5,
        do whil .t.
            @ 21,11 qet msub5 pict '@!'
            read
            go top
    loca for subcode=msub5
    if , not, found()
            @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
    continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub5=spac (5)
            loop
        endi
    descl= sub
    @ 21,22 get desc1
    clea gets
    exit
    endd
    @ 13,43 say '6'
    do whil ,t.
    @ 13,51 get msub6 pict '@!'
    read
    go top
    loca for subcode=msub6
    if .not, found()
        @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
        continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub6=spac(5)
            loop
    endi
    desc1= sub
    @ 13,62 get desc1
```

```
        clea gets
        exit
    endd
    @ 15,43 say '7'
    do whil .t.
    @ 15,51 get msub7 pict '@!'
    read
    go top
    loca for subcode=msub7
    if not. found()
            @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub7=spac(5)
            loop
        endi
        descl=sub
        @ 15,62 get desc1
        clea gets
        exit
    endd
    @ 17,43 say '8'
    do whil ,t.
    @ 17,51 get msub8 pict '@!'
    read
    go top
    loca for subcode=msub8
    if .not. found()
            @ 23,14 say 'Subject Code is Invalid - Press any key to
continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub8=spac (5)
            loop
        endi
        desc1=sub
        @ 17,02 get desc1
        clea gets
        exit
    endd
    e 19,43 say '9'
    do whil ,t.
    @ 19,51 get msub9 pict '@!'
    read
    go top
    loca for subcode=msub9
    if ,not. found()
        @ 23,14 say 'Subject Code is Invalid - Press any key to
continue,
    set cons off
    wait
    set cons on
    @ 23,5 clea to 23,74
```

```
            msub9=spac(5)
            loop
        endi
    desc1=sub
    @ 19,62 get desc1
    clea gets
    exit
    endd
    sele 1
    @ 23,22 say 'Press "S" to Save or "A" to Abort'
    do whil .t.
    choice= ',
    @ 23,56 get choice pict '!'
    read
    if choice $ 'SA'
        exit
    endi
    endd
    if choice= 'S'
    append blank
    repl number with mnumber, name with mname
    repl state with mstate, nation with mnation
    repl ccode with mccode, sex with msex
    repl state with mstate,age with mage,scode with mscode
    repl sub1 with msub1,sub2 with msub2,sub3 with msub3,sub4
with msub4
    repl sub5 with msub5,sub6 with msub6, sub7 with msub7,sub8
with msub8
    repl sub9 with msub9
        endi
endd
close all
clea
retu
** PB.PRG **
set talk off
sele 1
    use student
sele 2
    use sub
do whil ,t.
    clea
    sele 1
    go top
    (1,10 to 23,69 doub
    @ 20,11 to 20,68 doub
    @ 2,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 3,28 to 3,52 doub
    @ 5,23 SaY 'MODIFYING OF STUDENT RECORD SCREEN'
    @ 6,23 to 6,56 doub
    @ 8,11 Say 'PERSONAL DETAILS'
    @ 9,11 to 9,26
    mnumber=spac(6)
    @ 10,14 say 'STUDENT NUMBER (Enter "999999" to quit):' get
```

```
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if not. found()
            @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue,
            set cons off
            wait
            set cons on
            loop
    endi
    mname=name
    mstate=state
    mnation=nation
    mage=age
    mccode=ccode
    msex=sex
    mscode=scode
    msub1 =sub1
    msub2=sub2
    msub3=sub3
    msub4=sub4
    msub5=sub5
    msub6=sub6
    msub7=sub7
    msub8=sub8
    msub9=sub9
    @ 12,14 say 'STUDENT NAME:' get mname pict '@!'
    @ 14,14 say 'SEX'
    @ 14,21 say 'AGE'
    @ 14,28 say 'STATE OF ORIGIN'
    @ 14,52 say 'NATIONALITY'
    @ 15,15 get msex pict '!'
    @ 15,21 qet mage
    @ 15,29 get mstate pict '@!'
    @ 15,48 get mnation pict '@!'
    @ 17,14 say 'CLASS CODE (Enter 1 for SS1, 2 for SS2, 3 for
SS3)' get mccode
    @ 19,23 say "ENTER THE STUDENT SCHOOL CODE" get mscode
    read
    @ 22,21 say 'Press any Key for Sub,ject Registration'
    set cons off
    wait
    set cons on
    clea
    (e) 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,23 Say 'MODIFYING OF STUDENT RECORD SCREEN'
    @ 5,24 to 5,56 doub
    @ 7,5 say 'STUDENT NUMBER'
    @ 7,34 say 'STUDENT NAME'
    @ 8,9 get mnumber
    @ 8,28 get mname
```

```
clea gets
@ 10,1 to 10,78
@ 11,40 to 21,40
@ 11,2 say 'S/NO SUBJECT CODE DESCRIPTION'
@ 11,42 say 'S/NO SUBJECT CODE DESCRIPTION'
@ 12,1 to 12,39
@ 12,41 to 12,78
@ 13,3 say '1'
sele 2
@ 13,11 get msub1 pict '@!'
go top
loca for subcode=msub1
descl=sub
@ 13,22 get desc1
@ 15,3 say '2'
@ 15,11 get msub2 pict '@!'
go top
loca for subcode=msub2
desc1= sub
@ 15,22 get desc1
@ 17,3 say '3'
@ 17,11 get msub3 pict '@!'
go top
loca for subcode=msub3
desc1= sub
@ 17,22 get desc1
@ 19,3 say '4'
@ 19,11 get msub4 pict '@!'
go top
loca for subcode=msub4
descl= sub
@ 19,22 get desc1
(e) 21,3 say '5'
@ 21,11 get msub5 pict '@!'
go top
loca for subcode=msub5
descl= sub
@ 21,22 get descl
@ 13,43 say '6'
@ 13,51 get msub6 pict '@!'
go top
loca for subcode=msub6
descl= sub
@ 13,62 get desc1
@ 15,43 say '7'
@ 15,51 get msub7 pict '@!'
go top
loca for subcode=msub7
descl=sub
@ 15,62 get desc1
@ 17,43 say '8'
@ 17,51 get msub8 pict '@!'
go top
loca for subcode=msub8
descl=sub
@ 17,62 get desc1
@ 19,43 say '9'
```

```
    @ 19,51 get msub9 pict '@!'
    go top
    loca for subcode=msub9
    desc1=sub
    @ 19,62 get desc1
    clea gets
    do whil ,t.
    @ 13,11 get msub1 pict '@!'
    read
    go top
    loca for subcode=msub1
    if .not. found()
        @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
continue'
        set cons off
        wait
        set cons on
        @ 23,5 clea to 23,74
        msub1=spac(5)
        loop
        endi
        descl=sub
        @ 13,22 get desc1
        clea gets
        exit
    endd
    @ 15,3 say '2'
    do whil ,t.
    @ 15,11 get msub2 pict '@!'
    read
    go top
    loca for subcode=msub2
    if not, found()
        @ 23,14 say 'Subject Code is Invalid - Press any key to
continue"
        set cons off
        wait
        set cons on
        @ 23,5 clea to 23,74
        msub2=spac(5)
        loop
        endi
        descl= sub
        [ 15,22 get desc1
        clea gets
        exit
    endd
    @ 17,3 say '3'
    do whil ,t,
    @ 17,11 get msub3 pict '@!'
    read
    go top
    loca for subcode=msub3
    if not, found()
        e 23,14 say 'Subject Code is Invalid - Press any key to
continue'
        set cons off
        wait
```

```
            set cons on
            @ 23,5 clea to 23,74
            msub3=spac(5)
            loop
        endi
        descl= sub
        @ 17,22 get desc1
        clea gets
        exit
    endd
    @ 19,3 say '4,
    do whil .t.
    @ 19,11 get msub4 pict '@!'
    read
    go top
    loca for subcode=msub4
    if not. found()
            e 23,14 say 'Subject Code is Invalid - Press any key to
continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub4=spac (5)
            loop
            endi
            desc1= sub
            @ 19,22 get desc1
            clea gets
            exit
        endd
        @ 21,3 say '5'
        do whil ,t.
            @ 21,11 get msub5 pict '@!'
            read
            go top
            loca for subcode=msub5
            if not. found()
            @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
continue,
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub5=spac(5)
            loop
        endi
        descl= sub
        @ 21,22 get desc1
        clea gets
        exit
    endd
    @ 13,43 say '6'
    do whil .t.
    @ 13,51 get msub6 pict '@!'
    read
    go top
    loca for subcode=msub6
```

```
    if .not. found()
    @ 23,14 say 'Sub,ject Code is Invalid - Press any key to
continue'
    set cons off
    wait
    set cons on
    @ 23,5 clea to 23,74
    msub6=spac(5)
    loop
    endi
    desc1= sub
    @ 13,62 get descl
    clea gets
    exit
    endd
    @ 15,43 say '7'
    do whil ,t.
    @ 15,51 get msub7 pict '@!'
    read
    go top
    loca for subcode=msub7
    if ,not, found()
        @ 23,14 say 'Subject Code is Invalid - Press any key to
    continue'
        set cons off
        wait
        set cons on
        @ 23,5 clea to 23,74
        msub7=spac(5)
        loop
        endi
        desc1=sub
        @ 15,62 get desc1
        clea gets
        exit
    endd
    @ 17,43 say ' 8'
    do whil ,t.
    @ 17,51 get msub8 pict 'e!'
    read
    go top
    loca for subcode=msub8
    if .not. found()
        @ 23,14 say 'Subject Code is Invalid - Press any key to
    continue'
            set cons off
            wait
            set cons on
            @ 23,5 clea to 23,74
            msub8=spac(5)
            loop
        endi
        desc1=sub
        @ 17,62 get desc1
        clea gets
        exit
    endd
    @ 19,43 say '9'
```

```
    do whil ,t.
    @ 19,51 get msub9 pict '@!'
    read
    go top
    loca for subcode=msub9
    if not, found()
        e 23,14 say 'Sub,ject Code is Invalid - Press any key to
continue'
                set cons off
                wait
                set cons on
                @ 23,5 clea to 23,74
                msub9=spac (5)
                loop
    endi
    desc1=sub
    @ 19,62 get desc1
    clea gets
    exit
    endd
    sele 1
    @ 23,22 say 'Press "S" to Save or "A" to Abort"
    do whil .t;
    choice= , ,
    @ 23,56 get choice pict '!'
    read
    if choice $ 'SA'
                exit
    endi
    endd
    if choice= 'S'
    repl number with mnumber, name with mname
    repl state with mstate,nation with mmation
    repl ccode with mccode, sex with msex
    repl state with mstate,age with mage, scode with mscode
    repl sub1 with msub1,sub2 with msub2,sub3 with msub3,sub4
with msub4
    repl sub5 with msub5,sub6 with msub6,sub7 with msub7,sub8
with msub8
    repl sub9 with msub9
    endi
endd
close all
clea
retu
** PC.PRG **
set talk off
use student
do whil ,t,
    clea
    go top
    @ 1,10 to 23,69 doub
    (e) 20,11 to 20,68 doub
    @ 2,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 3,28 to 3,52 doub
```

```
    @ 5,24 say 'REMOVAL OF STUDENT RECORD SCREEN'
    @ 6,24 to 6,55 doub
    @ 8,11 say 'PERSONAL DETAILS'
    @ 9,11 to 9,26
    mnumber=spac(6)
    @ 10,14 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mumber= '999999'
        exit
    endi
    loca for number=mnumber
    if ,not, found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
            set cons off
            wait
            set cons on
            loop
    endi
    mname=name
    mstate=state
    mnation=nation
    mage=age
    mccode=ccode
    msex=sex
    mscode=scode
    @ 12,14 say 'STUDENT NAME:' get mname pict '@!'
    @ 14,14 say 'SEX'
    @ 14,21 say 'AGE'
    @ 14,28 say 'STATE OF ORIGIN'
    @ 14,52 say 'NATIONALITY',
    @ 15,15 get msex pict '!'
    @ 15,21 get mage
    @ 15,29 get mstate pict '@!'
    @ 15,48 get mnation pict '@!'
    @ 17,14 say 'CLASS CODE (Enter 1 for SS1, 2 for SS2, 3 for
SS3)' get mccode
    @ 19,23 say "ENTER THE STUDENT SCHOOL CODE" get mscode
    clea gets
    @ 22,15 say 'Removing this student record - To continue (Y/N)'
    do whil ,t.
        choice= , '
        @ 22,64 get choice pict '!'
        read
        if choice $ 'YN'
            exit
        endi
    endd
    if choice= 'Y'
        dele
        pack
    endi
endd
close all
clea
retu
```

```
set talk off
sele 1
    use student
sele 2
    use sub
do whil ,t.
    clea
    sele 1
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,23 say 'ENTERING EXAMINATION SCORES SCREEN'
    @ 5,23 to 5,56 doub
    mnumber=spac(6)
    e 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if not. found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
        set cons off
        wait
        set cons on
        loop
    endi
    mname=name
    mccode=ccode
    if mccode='1',
        class='SS1'
    endi
    if mccode='2'
        class='SS2'
    endi
    if mccode=' 3',
        class='SS3'
    endi
    @ 7,5 clea to 7,70
    @ 7,5 say 'STUDENT NUMBER'
    @ 7,34 say 'STUDENT NAME'
    @ 7,69 say 'CLASS'
    @ 8,9 get mnumber
    @ 8,24 get mname
    @ 8,70 get class
    clea gets
    msub1=sub1
    msub2=sub2
    msub3=sub3
    msub4=sub4
    msub5=sub5
    msub6=sub6
```

```
msub7= sub7
msub8=sub8
msub9=sub9
@ 10,1 to 10,78
@ 11,40 to 21,40
@ 11,2 say 'S/NO
@ 11,42 say 'S/NO
(e) 12,1 to 12,39
@ 12,41 to 12,78
@ 13,3 say '1'
sele 2
go top
loca for subcode=msub1
descl=sub
@ 13,8 get desc1
@ 15,3 say '2'
go top
loca for subcode=msub2
desc1= sub
@ 15,8 get desc1
@ 17,3 say '3'
go top
loca for subcode=msub3
descl= sub
@ 17,8 get desc1
@ 19,3 say '4'
go top
loca for subcode=msub4
desc1= sub
@ 19,8 get descl
@ 21,3 say '5'
go top
loca for subcode=msub5
desc1= sub
@ 21,8 get desc1
@ 13,43 say '6'
go top
loca for subcode=msub6
desc1= sub
@ 13,48 get desc1
@ 15,43 say '7'
go top
loca for subcode=msub7
desc1=sub
@ 15,48 get desc1
@ 17,43 say '8'
go top
loca for subcode=msub8
desc1=sub
@ 17,48 get desc1
@ 19,43 say '9'
go top
loca for subcode=msub9
descl=sub
@ 19,48 get desc1
clea gets
sele 1
mexam1=exam1
```

```
    mexam2=exam2
    mexam3=exam3
    mexam4=exam4
    mexam5=exam5
    mexam6zexam6
    mexam7=exam7
    mexam8=exam8
    mexam9=exam9
    @ 13,29 get mexam1 pict '999.9'
    @ 15,29 get mexam2 pict '999.9'
    @ 17,29 get mexam3 pict '999.9'
    @ 19,29 get mexam4 pict '999.9'
    @ 21,29 get mexam5 pict '999.9'
    @ 13,69 get mexam6 pict '999.9'
    @ 15,69 get mexam7 pict '999.9'
    @ 17,69 get mexam8 pict '999,9'
    @ 19,69 get mexam9 pict '999.9'
    read
    @ 23,22 say 'Press "S" to Save or "A" to Abort'
    do whil .t
        choice= , '
        @ 23,56 get choice pict '!'
        read
        if choice $ 'SA'
            exit
        endi
    endd
    if choice= 'S'
        repl exam1 with mexam1,exam2 with mexam2, exam3 with mexam3
        repl exam4 with mexam4, exam5 with mexam5, exam6 with mexam6
        repl exam7 with mexam7,exam8 with mexam8,exam9 with mexam9
    endi
endd
close all
clea
retu
    PE.PRG **
set talk off
sele 1
    use student
sele 2
    use sub
do whil .t.
    clea
    sele 1
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,21 Say 'MODIFYING OF EXAMINATION SCORES SCREEN'
    @ 5,21 to 5,58 doub
    mnumber=spac(6)
    @ 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
```

```
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if not. found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
        set cons off
        wait
        set cons on
        loop
    endi
    mname =name
    mccode=ccode
    if mocode='1'
        class='SS1'
    endi
    if mccode='2'
        class='SS2'
    endi
    if mccode='3'
        class='SS3'
    endi
    @ 7,5 clea to 7,70
    @ 7,5 say 'STUDENT NUMBER'
    @ 7,34 say 'STUDENT NAME'
    @ 7,69 say 'CLASS'
    @ 8,9 get mnumber
    @ 8,24 get mname
    @ 8,70 get class
    clea gets
    msub1=sub1
    msub2=sub2
    msub3=sub3
    msub4=sub4
    msub5=sub5
    msub6=sub6
    msub7=sub7
    msub8=sub8
    msub9=sub9
    @ 10,1 to 10,78
    @ 11,40 to 21,40
    @ 11,2 say 'S/NO DESCRIPTION MARKS SCORED'
    @ 11,42 say 'S/NO DESCRIPTION MARKS SCORED'
    @ 12,1 to 12,39
    @ 12,41 to 12,78
    @ 13,3 say '1'
    sele 2
    go top
    loca for subcode=msub1
    desc1=sub
    @ 13,8 get desc1
    @ 15,3 say '2'
    go top
    loca for subcode=msub2
    desc1= sub
    @ 15,8 get desc1
```

```
@ 17,3 say '3'
go top
loca for subcode=msub3
desc1= sub
@ 17,8 get descl
@ 19,3 say '4,
go top
loca for subcode=msub4
desc1= sub
@ 19,8 get desc1
@ 21,3 say '5'
go top
loca for subcode=msub5
desc1= sub
@ 21,8 get descl
@ 13,43 say '6'
go top
loca for subcode=msub6
desc1= sub
@ 13,48 get desc1
@ 15,43 say '7'
go top
loca for subcode=msub7
desc1=sub
@ 15,48 get desc1
@ 17,43 say '8'
go top
loca for subcode=msub8
descl=sub
@ 17,48 get desc1
@ 19,43 say '9'
go top
loca for subcode=msub9
desc1=sub
@ 19,48 get desc1
clea gets
sele 1
mexam1=exam1
mexam2=exam2
mexam3=exam3
mexam4 =exam4
mexam5=exam5
mexam6=exam6
mexam7=exam7
mexam8=exam8
mexam9=exam9
@ 13,29 get mexam1 pict '999.9,
read
sele 1
@ 23,22 say 'Press "S" to Save or "A" to Abort'
```

```
    do whil ,t,
    choice= ,
    @ 23,56 get choice pict '!'
    read
    if choice $ 'SA'
        exit
    endi
    endd
    if choice= 'S'
    repl exam1 with mexam1, exam2 with mexam2,exam3 with mexam3
    repl exam4 with mexam4, exam5 with mexam5, exam6 with mexam6
    repl exam7 with mexam7, exam8 with mexam8, exam9 with mexam9
    endi
endd
close all
clea
retu
** PF.PRG **
set talk off
sele 1
    use student
sele 2
    use sub
do whil :t.
    clea
    sele l
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    (2) 2,28 to 2,52 doub
    @ 4,25 say 'VIEWING OVERALL RESULT SCREEN'
    @ 5,25 to 5,53 doub
    mumber=spac(6)
    @ 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if not, found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
        set cons off
        wait
        set cons on
        loop
    endi
    mname=name
    mccode=ccode
    if mccode='1',
        class='SS1'
    endi
    if mccode='2'
        class='SS2'
```

```
endi
if mccode='3'
    class='SS3'
endi
@ 7,5 clea to 7,70
@ 7,5 say 'STUDENT NUMBER'
@ 7,34 say 'STUDENT NAME'
@ 7,69 say 'CLASS'
@ 8,9 get mnumber
@ 8,24 get mname
@ 8,70 get class
clea gets
msub1 =sub1
msub2=sub2
msub3=sub3
msub4=sub4
msub5=sub5
msub6=sub6
msub7=sub7
msub8=sub8
msub9=sub9
@ 10,1 to 10,78
@ 11,40 to 21,40
@ 11,2 say 'S/NO DESCRIPTION MARKS SCORED'
@ 11,42 say 'S/NO DESCRIPTION MARKS SCORED'
@ 12,1 to 12,39
@ 12,41 to 12,78
@ 13,3 say '1'
sele 2
go top
loca for subcode=msub1
desci=sub
@ 13,8 get desc1
@ 15,3 say '2'
go top
loca for subcode=msub2
desc1= sub
@ 15,8 get desc1
@ 17,3 say '3'
go top
loca for subcode=msub3
desc1= sub
@ 17,8 get desc1
@ 19,3 say '4'
go top
loca for subcode=msub4
desc1= sub
@ 19,8 get desc1
@ 21,3 say '5'
go top
loca for subcode=msub5
desc1= sub
@ 21,8 get descl
@ 13,43 say '6'
go top
loca for subcode=msub6
descl= sub
(13,48 get desc1
```

```
@ 15,43 say '7,
go top
loca for subcode=msub7
desc1=sub
@ 15,48 get desc1
@ 17,43 say ' }8\mathrm{ '
go top
loca for subcode=msub8
desc1=sub
@ 17,48 get desc1
@ 19,43 say 'g'
go top
loca for subcode=msub9
desc1=sub
@ 19,48 get desc1
clea gets
sele 1
mexam1 =exam1
mexam2=exam2
mexam3=exam3
mexam4=exam4
mexam5=exam5
mexam6=exam6
mexam7=exam7
mexam8=exam8
mexam9=exam9
mfirst1=first1
mfirst2=first2
mfirst3=first3
mfirst4=first4
mfirst5=first5
mPirst6=first6
mfirst7=first7
mfirst8=first8
mfirst9=first9
msecond1=secondl
msecond2=second2
msecond 3}=\mathrm{ second 3
msecond4 = second4
msecond5 = second5
msecond6 = second6
msecond7 =second7
msecond8=second8
msecond9 =second9
tot1=mfirstl+msecond1+mexaml
tot2=mfirst2+msecond2+mexam2
tot3=mfirst3+msecond 3+mexam3
tot4=mfirst4+msecond4+mexam4
tot5=mfirst5+msecond5+mexam5
tot6=mfirst6+msecond6+mexam6
tot7=mfirst 7 +msecond 7+mexam7
tot8=mfirst8+msecond8+mexam8
tot }9=\mathrm{ mfirst }9+msecond 9+mexam9
@ 13,29 get tot1 pict '999.9'
@ 15,29 get tot2 pict '999.9'
@ 17,29 get tot3 pict '999.9'
@ 19,29 get tot4 pict '999.9'
@ 21,29 get tot5 pict '999.9'
```

```
    @ 13,69 get tot6 pict '999.9'
    @ 15,69 get tot7 pict '999.9'
    @ 17,69 get tot8 pict '999.9'
    @ 19,69 get tot9 pict '999.9'
    clea gets
    @ 23,21 say 'Viewing overall result - Press any key'
    set cons off
    wait
    set cons on
endd
close all
clea
retu
** PG.PRG **
set talk off
sele 1
    use student
sele 2
    use sub
do whil .t.
    clea
    sele 1
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,20 say 'ENTERING FIRST ASSESSMENT SCORES SCREEN'
    @ 5,20 to 5,58 doub
    mnumber=spac(6)
    @ 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if .not. found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
            set cons off
            wait
            set cons on
            loop
    endi
    mname=name
    mccode=ccode
    if mccode='1'
        class='SS1'
    endi
    if mccode='2'
        class='SS2'
    endi
    if mccode='3'
        class='SS3'
```

```
endi
@ 7,5 clea to 7,70
@ 7,5 say 'STUDENT NUMBER'
@ 7,34 say 'STUDENT NAME'
@ 7,69 say 'CLASS'
@ 8,9 get mmumber
@ 8,24 get mname
@ 8,70 get class
clea gets
msub1=sub1
msub2=sub2
msub3=sub3
msub4= sub4
msub5=sub5
msub6=sub6
msub7=sub7
msub8=sub8
msub9= sub9
(0) 10,1 to 10,78
@ 11,40 to 21,40
@ 11,2 say 'S/NO DESCRIPTION MARKS SCORED'
@ 11,42 say 'S/NO DESCRIPTION MARKS SCORED'
@ 12,1 to 12,39
@ 12,41 to 12,78
@ 13,3 say '1'
sele 2
go top
loca for subcode=msub1
desc1=sub
@ 13,8 get descl
@ 15,3 say '2'
go top
loca for subcode=msub2
descl= sub
@ 15,8 get desc1
@ 17,3 say '3'
go top
loca for subcode=msub3
desc1= sub
@ 17,8 get desc1
(1) 19,3 say '4'
go top
loca for subcode=msub4
descl= sub
@ 19,8 get desc1
@ 21,3 say '5'
go top
loca for subcode=msub5
descl= sub
@ 21,8 get desc1
@ 13,43 say '6'
go top
loca for subcode=msub6
desci= sub
@ 13,48 get desc1
@ 15,43 say '7'
go top
loca for subcode=msub7
```

```
    descl=sub
    @ 15,48 get desc1
    @ 17,43 say '8'
    go top
    loca for subcode=msub8
    descl=sub
    @ 17,48 get desc1
    @ 19,43 say '9'
    go top
    loca for subcode=msub9
    desc1=sub
    @ 19,48 get desc1
    clea gets
    sele 1
    mfirst1=first1
    mfirst2=first2
    mfirst3=first3
    mfirst4=first4
    mfirst5=first5
    mfirst&=first6
    mfirst7=first7
    mfirst8=first8
    mfirst9=first9
    @ 13,29 get mfirst1 pict '99.9'
    @ 15,29 get mfirst2 pict '99.9'
    @ 17,29 get mfirst3 pict '99.9'
    @ 19,29 get mfirst4 pict '99.9'
    @ 21,29 get mfirst5 pict '99.9'
    @ 13,69 get mfirst6 pict '99.9'
    @ 15,69 get mfirst7 pict '99.9'
    @ 17,69 get mfirst8 pict '99.9'
    @ 19,69 get mfirst9 pict '99.9'
    read
    sele 1
    @ 23,22 say 'Press "S" to Save or "A" to Abort'
    do whil ,t,
        choice= ',
        @ 23,56 get choice pict '!'
        read
        if choice $ 'SA'
            exit
        endi
    endd
    if choice= 'S'
        repl first1 with mfirst1,first2 with mfirst2,first3 with
mfirst3
            repl first4 with mfirst4,first5 with mfirst5,first6 with
mfirst6
            repl first7 with mfirst7,first8 with mfirst8,first9 with
mfirst9
    endi
endd
close all
clea
retu
```

```
set talk off
sele 1
    use student
sele 2
    use sub
do whil .t.
    clea
    sele 1
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,18 say 'MODIFYING OF FIRST ASSESSMENT SCORES SCREEN'
    @ 5,18 to 5,60 doub
    mnumber=spac(6)
    @ 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if not. found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
            set cons off
            wait
            set cons on
            loop
    endi
    mname =name
    mccode=ccode
    if mccode='1'
        class='SS1'
    endi
    if mccode='2'
        class='SS2'
    endi
    if mccode='3'
        class='SS3'
    endi
    @ 7,5 clea to 7,70
    @ 7,5 say 'STUDENT NUMBER'
    @ 7,34 say 'STUDENT NAME'
    @ 7,69 say 'CLASS'
    @ 8,9 get mnumber
    @ 8,24 get mname
    @ 8,70 get class
    clea gets
    msub1=sub1
    msub2=sub2
    msub3=sub3
    msub4 = sub4
    msub5 = sub5
    msub6=sub6
    msub7=sub7
    msub8=sub8
```

```
msub9=sub9
(10,1 to 10,78
@ 11,40 to 21,40
@ 11,2 say 'S/NO DESCRIPTION MARKS SCORED'
(0)
@ 12,1 to 12,39
@ 12,41 to 12,78
@ 13,3 say '1,
sele 2
go top
loca for subcode=msubl
descl=sub
@ 13,8 get descl
@ 15,3 say '2'
go top
loca for subcode=msub2
descl= sub
@ 15,8 get descl
@ 17,3 say '3'
go top
loca for subcode=msub3
desc1= sub
@ 17,8 get desc1
@ 19,3 say '4'
go top
loca for subcode=msub4
descl= sub
@ 19,8 get desc1
@ 21,3 say '5'
go top
loca for subcode=msub5
descl= sub
@ 21,8 get desc1
@ 13,43 say '6'
go top
loca for subcode=msub6
descl= sub
@ 13,48 get desc1
@ 15,43 say '7'
go top
loca for subcode=msub7
desci=sub
@ 15,48 get desc1
@ 17,43 say '8'
go top
loca for subcode=msub8
desc1=sub
@ 17,48 get desc1
@ 19,43 say '9'
go top
loca for subcode=msub9
descl=sub
@ 19,48 get desc1
clea gets
sele 1
mfirst1=first1
mfirst2=first2
mfirst3=first3
```

```
    mfirst4=first4
    mfirst5=first5
    mPirstG=first6
    mfirst7=first7
    mfirst8=first8
    mfirst9=first9
    @ 13,29 get mfirst1 pict '99.9'
    @ 15,29 get mfirst2 pict '99.9'
    @ 17,29 get mfirst3 pict '99.9'
    @ 19,29 get mfirst4 pict '99.9'
    @ 21,29 get mfirst5 pict '99.9'
    @ 13,69 get mfirst6 pict '99.9'
    @ 15,69 get mifirst7 pict '99.9'
    @ 17,69 get mfirst8 pict '99.9'
    @ 19,69 get mfirst9 pict '99.9'
    read
    sele 1
    @ 23,22 say 'Press "S" to Save or "A" to Abort'
    do whil .t;
        choice= , '
        @ 23,56 get choice pict '!'
        read
        if choice $ 'SA'
            exit
        endi
    endd
    if choice= 'S'
    repl first1 with mfirst1,first2 with mfirst2,first3 with
mfirst3
    repl first4 with mfirst4,first5 with mfirst5,first6 with
mfirst6
        repl first7 with mfirst7,first8 with mfirst8,first9 with
mfirst9
    endi
endd
close all
clea
retu
** PI.PRG **
set talk off
sele 1
    use student
sele 2
    use sub
do whil ,t,
    clea
    sele 1
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,20 say 'ENTERING SECOND ASSESSMENT SCORES SCREEN'
    @ 5,20 to 5,59 doub
    mnumber=spac(0)
```

```
    @ 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= 'g99999'
        exit
    endi
    loca for number=mnumber
    if not. found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue,
            set cons off
            wait
            set cons on
            loop
endi
mname=name
mccode=ccode
    if mccode='1'
        class='SS1'
    endi
    if mocode='2'
        class='SS2'
    endi
    if mccode='3'
        class='SS3'
    endi
    @ 7,5 clea to 7,70
    @ 7,5 say 'STUDENT NUMBER'
    @ 7,34 say 'STUDENT NAME'
    @ 7,69 say 'CLASS'
    @ 8,9 qet mnumber
    @ 8,24 get mname
    @ 8,70 Ret class
    clea gets
    msub1=sub1
    msub2=sub2
    msub3=sub3
    msub4= sub4
    msub5=sub5
    msub6=sub6
    msub7=sub7
    msub8=sub8
    msub9=sub9
    @ 10,1 to 10,78
    @ 11,40 to 21,40
    @ 11,2 say 'S/NO DESCRIPTION MARKS SCORED'
    @ 11,42 say 'S/NO DESCRIPTION MARKS SCORED'
    @ 12,1 to 12,39
    @ 12,41 to 12,78
    @ 13,3 say '1'
    sele 2
    go top
    loca for subcode=msubl
    desc1=sub
    @ 13,8 get desc1
    @ 15,3 say '2'
    go top
    loca for subcode=msub2
```

```
desc1= sub
@ 15,8 get desc1
@ 17,3 say '3'
go top
loca for subcode=msub3
desc1= sub
@ 17,8 get desc1
@ 19,3 say '4'
go top
loca for subcode=msub4
desc1= sub
@ 19,8 get desc1
@ 21,3 say '5'
go top
loca for subcode=msub5
desc1= sub
@ 21,8 get desc1
@ 13,43 say '6'
go top
loca for subcode=msub6
desc1= sub
@ 13,48 get desc1
@ 15,43 say '7,
go top
loca for subcode=msub7
desc1=sub
@ 15,48 get desc1
@ 17,43 say '8'
go top
loca for subcode=msub8
descl=sub
@ 17,48 get desc1
@ 19,43 say '9'
go top
loca for subcode=msub9
descl=sub
@ 19,48 get desc1
clea gets
sele 1
msecond1 = second1
msecond2=second2
msecond3=second3
msecond4 = second4
msecond5=second5
msecond6 = second6
msecond7=second7
msecond8=second8
msecond9=second9
@ 13,29 get msecondl pict '99.9',
@ 15,29 get msecond2 pict '99.9'
@ 17,29 get msecond3 pict '99.9'
@ 19,29 get msecond4 pict '99.9'
@ 21,29 get msecond5 pict '99.9'
@ 13,69 Ret msecond6 pict '99.9'
@ 15,69 get msecond7 pict '99.9'
@ 17,69 get msecond8 pict '99.9'
@ 19,69 get msecond9 pict '99.9'
read
```

```
    sele 1
    @ 23,22 say 'Press "S" to Save or "A" to Abort'
    do whil ,t.
    choice= , '
    @ 23,56 get choice pict ','
    read
    if choice $ 'SA'
        exit
    endi
endd
if choice= 'S'
    repl second1 with msecond1, second2 with msecond2, second3 with
msecond3
    repl second4 with msecond4, second5 with msecond5, second6 with
msecond6
    repl second7 with msecond7, second8 with msecond8, second9 with
msecond9
    endi
endd
close all
clea
retu
** PJ.PRG **
set talk off
sele 1
    use student
sele 2
    use sub
do whil ,t,
    clea
    sele 1
    go top
    @ 0,0 to 24,79 doub
    @ 22,1 to 22,78 doub
    @ 1,28 say 'NIGER STATE UNITY SCHOOLS'
    @ 2,28 to 2,52 doub
    @ 4,20 say 'MODIFYING OF SECOND ASSESSMENT SCORES SCREEN'
    @ 5,18 to 5,61 doub
    mnumber=spac(6)
    @ 7,5 say 'STUDENT NUMBER (Enter "999999" to quit):' get
mnumber pict '@!'
    read
    if mnumber= '999999'
        exit
    endi
    loca for number=mnumber
    if not, found()
        @ 22,11 say 'Student Number Does Not Exists - Press any key
to continue'
        set cons off
        wait
        set cons on
        loop
    endi
    mname=name
```

```
mccode=ccode
if mccode='1'
    class='SS1'
endi
if mccode='2'
    class='SS2'
endi
if mccode='3'
    class='SS3'
endi
@ 7,5 clea to 7,70
@ 7,5 say 'STUDENT NUMBER'
@ 7,34 say 'STUDENT NAME'
@ 7,69 say 'CLASS'
@ 8,9 get mnumber
@ 8,24 get mname
@ 8,70 get class
clea gets
msub1=sub1
msub2=sub2
msub3=sub3
msub4=sub4
msub5=sub5
msub6=sub6
msub7=sub7
msub8=sub8
msub9=sub9
@ 10,1 to 10,78
@ 11,40 to 21,40
@ 11,2 say 'S/NO DESCRIPTION MARKS SCORED'
@ 11,42 say 'S/NO DESCRIPTION MARKS SCORED'
@ 12,1 to 12,39
@ 12,41 to 12,78
@ 13,3 say '1'
sele 2
go top
loca for subcode=msub1
desc1=sub
@ 13,8 get descl
@ 15,3 say '2'
go top
loca for subcode=msub2
descl= sub
@ 15,8 get desc1
@ 17,3 say '3'
go top
loca for subcode=msub3
descl= sub
@ 17,8 get desc1
@ 19,3 say '4'
go top
loca for subcode=msub4
desc1= sub
@ 19,8 get desc1
(e 21,3 say '5'
go top
loca for subcode=msub5
desc1= sub
```

```
@ 21,8 get desc1
@ 13,43 say '6'
go top
loca for subcode=msub6
desc1= sub
e 13,48 get desc1
@ 15,43 say '7'
go top
loca for subcode=msub7
desc1=sub
@ 15,48 get desc1
@ 17,43 say '8'
go top
loca for subcode=msub8
desc1=sub
@ 17,48 get desc1
@ 19,43 say '9'
go top
loca for subcode=msub9
descl=sub
@ 19,48 get desc1
clea gets
sele 1
msecond1 = second1
msecond2=second2
msecond3 = second3
msecond4 = second4
msecond5 = second5
msecond6=second6
msecond7=second7
msecond8=second8
msecond9 = second }
@ 13,29 get msecond1 pict '99.9'
@ 15,29 get msecond2 pict '99.9'
@ 17,29 get msecond3 pict '99.9'
@ 19,29 get msecond4 pict '99.9'
@ 21,29 get msecond5 pict '99.9',
@ 13,69 get msecond6 pict '99.9',
@ 15,69 get msecond7 pict '99.9',
@ 17,69 qet msecond8 pict ',99.9',
@ 19,69 get msecond9 pict '99.9'
read
sele 1
@ 23,22 say 'Press "S" to Save or "A" to Abort'
do whil ,t.
    choice=, ,
    @ 23,56 get choice pict '!'
    read
    if choice $ 'SA'
            exit
        endi
    endd
    if choice= 'S'
        repl second1 with msecond1, second2 with msecond2, second3 with
msecond3
    repl second4 with msecond4, second5 with msecond5, second6 with
msecond6
    repl second7 with msecond7, second8 with msecond8, second9 with
```

```
msecond9
        endi
endd
close all
clea
retu
** PK.PRG **
set talk off
set stat off
g=',
sele 1
        use student
    sele 2
        use sub
    sele 1
set devi to print
    do whil snot, eof()
        mnumber=number
        mname=name
        mccode=ccode
        if mccode='1',
            class='SS1'
        endi
        if mccode='2,
            class='SS2'
        endi
        if mccode=' 3,
            class='SS3'
        endi
        msession='1994/95'
        msemester='SECOND'
        msub1 = sub1
        msub2=sub2
        msub3=sub3
        msub4=sub4
        msub5=sub5
        msub6=sub6
        msub7= sub7
        msub8=sub8
        msub9=sub9
        mfirst1=first1
        mfirst2=first2
        mfirst3=first3
        mfirst4=first4
        mfirst5=first5
        mfirst6=first6
        mfirst7=first7
        mfirst8=first8
        mfirst9=first9
        msecond1 = second1
        msecond2=second2
        msecond3=second3
        msecond4=second4
        msecond5=second5
        msecond6=second6
```

```
    msecond7 = second7
    msecond8=second8
    msecond9 = second9
    mexam1 =exam1
    mexam2=exam2
    mexam3=exam3
    mexam4=exam4
    mexam5=exam5
    mexam6=exam6
    mexam7 =exam7
    mexam8=exam8
    mexam9=exam9
    sele 2
    go top
    loca for subcode= msubl
    descl= sub
    go top
    loca for subcode= msub2
    desc2= sub
    go top
    loca for subcode= msub3
    desc3= sub
    go top
    loca for subcode= msub4
    desc4= sub
    go top
    loca for subcode= msub5
    desc5= sub
    go top
    loca for subcode= msub6
    desc6= sub
    go top
    loca for subcode= msub7
    desc7= sub
    go top
    loca for subcode= msub8
    desc8= sub
    go top
    loca for subcode= msub9
    desc9= sub
T1= mfirst1+msecond1+mexam1
T2= mfirst2+msecond2+mexam2
T3= mfirst 3+msecond 3+mexam3
T4= mfirst4+msecond4+mexam4
T5= mfirst5+msecond5+mexam5
T6= mfirst6+msecond6+mexam6
T7= mfirst7+msecond7+mexam7
T8= mfirst8+msecond8+mexam8
T9= mfirst9+msecond9+mexam9
T=T1
do grading
g1=R
T=T2
do grading
g2=g
T=T3
do grading
g3=g
```

```
    T=T4
    do grading
    g4=g
    T=T5
    do grading
    g5=g
    T=T6
    do grading
    g6=g
    T=T7
    do grading
    g7=g
    T=T8
    do grading
    g8=g
    T=T9
    do grading
    g9=g
@ 0,23 say 'FEDERAL GOVERNMENT COLLEGE, MINNA'
@ 1,23 say repl('=',33)
@ 3,30 say 'STUDENT REPORT SHEET'
@ 4,30 say repl('-',20)
@ 6,3 say 'CANDIDATE NUMBER: '+ mnumber
@ 8,3 say 'CANDIDATE NAME: ' + mname
@ 10,3 say 'CLASS: ' + class
@ 10,20 say 'SESSION: ' + msession
@ 10,45 say 'SEMESTER: '+msemester
@ 12,3 say repl('-',75)
@ 13,6 say 'SUBJECT'
@ 13,21 say ', 1ST SUMMARY : 2ND SUMMARY !'
@ 13,51 say 'EXAMINATION : TOTAL : GRADE '
@ 14,3 say repl('-',75)
@ 15,3 say descl
@ 15,17 say mfirst1
@ 15,31 say msecond1
@ 15,45 say mexam1
@ 15,57 say T1
@ 15,74 say g1
@ 17,3 say desc2
@ 17,17 say mfirst2
@ 17,31 say msecond2
@ 17,45 say mexam2
@ 17,57 say T2
@ 17,74 say g2
@ 19,3 say desc3
@ 19,17 say mfirst3
@ 19,31 say msecond3
@ 19,45 say mexam3
@ 19,57 say T3
@ 19,74 say g3
@ 21,3 say desc4
@ 21,17 say mfirst4
@ 21,31 say msecond4
@ 21,45 say mexam4
@ 21,57 say T4
@ 21,74 say 94
@ 23,3 say desc5
@ 23,17 say mfirst5
```

```
@ 23,31 say msecond5
(23,45 say mexam5
@ 23,57 say T5
@ 23,74 say g5
@ 25,3 say desc6
@ 25,17 say mfirst6
@ 25,31 say msecond6
@ 25,45 say mexam6
@ 25,57 say T6
@ 25,74 say g6
@ 27,3 say desc7
@ 27,17 say mfirst7
@ 27,31 say msecond7
@ 27,45 say mexam7
@ 27,57 say T7
@ 27,74 say g7
@ 29,3 say desc8
@ 29,17 say mfirst8
e 29,31 say msecond8
@ 29,45 say mexam8
@ 29,57 say T8
@ 29,74 say g8
@ 31,3 say desc9
@ 31,17 say mfirst9
@ 31,31 say msecond9
@ 31,45 say mexam9
@ 31,57 say T9
@ 31,74 say, m9
@ 35,3 say '-------------------------------------
@ 35,40 say '-----------------
@ 30,3 say 'CLASS MASTER'
@ 36,40 say 'DATE'
@ 39,3 say ,-----------------------------------
@ 39,40 say '-----------------
@ 40,3 say 'PRINCIPAL'
@ 40,40 say 'DATE'
    e.ject
        sele 1
        skip
endd
set devi to scree
clos all
clea
retu
```


[^0]:    ${ }^{1}$ M. A. MKPA, 'Problems of Implementing Continuous Assessment in Schools' in E. T. Ehiametabor (ed) Implementation of National Policy on Education (Benin: NERA, 1989)p. 173

[^1]:    ${ }^{2}$ Ezewu, E. and Okoye, N. Principles and Practice of continuous Assessment (Ibadan: Evans Brothers Ltd. 1982) p. 135.

