COMPUTERIZATION OF EXAMINATION GRADING SYSTEM

A CASE STUDY OF COMMUNITY SECONDARY SCHOOL, ASOKORO, ABUJA

BY

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CERTIFICATION

This is to certify that Mr. ELIJAH ABRAHAM OLORUNTOBA has in partial fulfillment of the requirement for the award of Post Graduate Diploma (PGD) in Maths/Computer Department, Federal University of Technology Minna, carried out a research on "Computerization of Examination Grading System" during the 2003/2004 academic session.

Signature:	date
Dr. N. Akinwande (Project supervisor)	
Signature:	date
Mr. L.N Ezeako (Head of department)	
	and the second s
Signature:	date

(External Examiner)

DEDICATION

This project work is dedicated to God for his endless love towards me throughout the period of my studies.

ACKNOWLEDGEMENT

My Sincere gratitude goes to God Almighty who has been my help and source of comfort all through the course of my study.

I am also indebted to my Project Supervisor Dr. N. Akinwande who has contributed immensely to the success of this project through his constructive criticisms and corrections. Also to my Head of Department (HOD), Dr. L.N Ezeako as well as the entire members of staff of the Maths/Computer Department who has in one way or the other contributed to the success this programmed I say God bless you all

My gratitude also go to my parents who has been by me and supporting me spiritually, financially, morally and otherwise. Also to my other siblings who were there to also be a source of encouragement I say thanks to you all

My gratitude will be incomplete if I fail to acknowledge the immense contribution of my course mates, all who stood by me through the thick and thin. I will ever remain indebted to you all you are really friends indeed.

ABSTRACT

Computer studies has much influence on the human society and has proved to be a huge success especially in the educational sector in various ways.

This study therefore tends to focus on just one among many of its application in the educational sector (EXAMINATION GRADING SYSTEM), which is of paramount importance in the evaluation of students performance, required by both parents and other examination bodies. It limited it scope to Community Secondary School Asokoro Abuja, which is the case study

This work tends to give a general overview of the computer system. Also consideration was given to the conventional grading system in use presently pointing out it strength and weaknesses as well as procure a suitable alternative; the use of computer, so as overcome the system weakness and failure that is eminent in the present system.

Attempt was also made to evaluate and analyse the alternative method chosen so as to ascertain it feasibility and viability. The method required for file conversion was also considered. The implementation plan was also delved into in the process of this study.

Finally, the documentation of the program forms the appendix for this project.

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CHAPTER ONE

1.1 INTRODUCTION.

The curiosity of man, about things and events around him led to technological advancement in all human endeavours. Man from the crude Stone Age has metamorphosed through various stages to the present day computer age. Today, the world has witnessed major technological changes and success in the last four decades but this is more pronounced in this decade. Among the technological changes experienced the most fascinating and appreciated is the development of the computer system. This technological success by man has really brought about a kind of revolution that is greater than other preceding changes, this has really affected our daily lives and endeavors. It has also brought about a change that is not static but dynamic.

The relevance or impact of computer to human lives makes it necessary for everyone to become literate in both the fundamentals and operations of the computer system. It vast application especially in the educational sector forms the basis of this research work.

1.2 BRIEF OVERVIEW OF THE COMPUTER SYSTEM

The computer is commonly regarded as a "thinking machine". It is a programmed unit that performs only the operations it is instructed to do. In

processing data, a computer is faster, more economical and reliable. A computer converts input data to output information by processing. The processing ability of the computer is aided by programs written by a computer programmer. The program indicates the instructions necessary to operate on the input so that meaningful output is realized.

The computer is defined as an electronic programmable machine that accepts data as input, stores the data, and process the data to give information as output, at a very high speed as required by the user.

The computer as an entity is broadly divided into two parts – the hardware and software. While the hardware is the physical component of the computer comprising of input unit, memory unit, processing unit, and output units, the software are the programs (set of instructions) under which the hardware work to accomplish a particular task as intended by the user. The software is divided into:- Operating system software and Application software.

The computer as an entity has characteristics peculiar to it that expresses it superiority and versatility compared to other operational devices.

These characteristics includes:

- High speed of operation: the speed is measured in nanoseconds or milliseconds. It can accomplish several tasks in a split of second. It is really a very fast machine.

- High Level of accuracy: that it is fast, does not underscore its high level of accuracy. The computer makes no error, except when wrong values of data are garbage into it. The operator most times causes computer errors during input. Also when the software or hardware malfunctions errors are bound to occur.
- High storage capacity and retrieving speed: it can store large volume of data or information, i.e. it has high storage capacity measured in gigabytes (billions of bytes). Also the speed at retrieving such information is also high.
- High Level of diligence: the computer is known to be a workhouse i.e. does not get tired. It works round the clock non-stop, except when shut down or faulty.
- High level of efficiency: job meant for hundred or more persons can be
 accomplished by just one person using the computer in the shortest time
 with a high level of accuracy. Hence the efficiency of the computer.
- Automatic in nature: the computer accomplish it operation with little or no human intervention. The computer is automatic in operation.

Considering these characteristics it becomes evident that the computer is an indispensable tool that has gone a long way in causing a positive change in the society. Especially in the educational sector, which tends to form the topic of discuss in this research work.

1.3 SCOPE OF STUDY

The application of the computer is very vast, making it a versatile machine. It application cut across sectors as: medical, technological, management and administration, domestic, industrial, educational, social, commercial, etc.

This research work will only be limited to the educational application. Although education also diversifies its application as in; record keeping, research, and examination grading. Amongst these, focus will be only on the application of computer in the examination grading system, with a case study of *Community Secondary School Asokoro*, *Abuja*.

1.4 RELEVANCE OF STUDY

This study wish to critically examine the grading system applicable to Community Secondary School, considering its advantages and disadvantages, so as to proffer a better way forward, to a better and articulated system design. This work will also suggest the method, as related to computer application to simulate the grading system of the school.

The study will also suggest the training of the people to operate and use the system and designed software.

With the increase in work load in the school daily routine, as well as the increase in the school population, there is the need for the computerization of the school activities for proper and easy record keeping, grading and administrative requirements.

1.5 DEFINITION OF TERMS

Base on the scope of this research work, we shall be limited to using few terminologies which may not be too familiar and hence requires their definitions, so as to aid easy understanding. These definitions are based on their use in the context of discuss.

- Computer:- an electronic programmable machine, which accepts data as input, stores the data and process the data to give a meaningful information, as required by the user, at a very high speed.
- Data: raw and unstructured facts, that is processed
- **Examination:** formal writing, oral or practical test to test the level of knowledge about a subject especially in schools and colleges.
- **Grading:** systematic and structured arrangement of examination scores based on a specific condition.
- Information: processed data
- **Programs:** Set of instruction, executed by the computer in order to accomplish a particular task.
- System: Processes or operations connected to work together based on a way of operation.

CHAPTER TWO

2.1 INTRODUCTION

This chapter will give a brief history of Community Secondary School,
Asokoro Abuja, with respect to it date of inception, location, organizational
structure. Also, the current grading system applicable in the school is also
brought to limelight, giving a detail analysis of the system.

2.2 HISTORICAL BACKGROUND OF THE PRESENT ASOKORO SECONDARY SCHOOL

Community Secondary School Asokoro, is located at the north-eastern flank of the Federal Capital Territory Abuja. It covers a landmass of 10 hectres, with the primary and secondary school built on it.

The school being an initiative of the former Director General State Security Service on October, 1992, was created to accord the wards of the staff of the State Security Service, qualitative and sound education, since the public schools were handicapped in meeting this requirement, due to over population which tends to over-stretch the limited facilities.

The school was established on October 1992, with about 73 students in attendance and about 10 – 12 staff members. But today the school has grown tremendously with a noticeable improvement both academically and size. The school now accommodates wards of the entire Intelligence Community staff. Comprising of The State Security Service (SSS), National Intelligence

Agency (NIA), Directorate of Military Intelligence (DMI), Defence Intelligence Agency (DIA), and the general public especially the affluent in the society. Also the siting of the Federal Capital Territory in Abuja has also constituted a booster to the growth and development of the school.

The school started as a nursery and primary school, as the pupils graduated there arose the need for a Secondary School so as to still keep the vision of good and qualitative education for the children alive and continuous.

After several years of existence and thriving the school today has a population of 2314 pupils and 2094 students in the secondary school with staff strength of 43.

The administrative structure is such a commendable one. The Assistant Director (ADS) Educational Service is in-charge of the school in a supervisory capacity. He is appointed by the Director General (DG) as recommended by the Intelligence Community. He over sees the activities of the schools, and also serve as link between the school and the service and channels all necessary information about the school to the Director General. He is directly responsible to the Director General (DG) while the primary and secondary school have their head-teacher and principal respectively who are accountable to the Executive Secretary (ES). The Executive Secretary is in turn accountable to the Assistant Director Educational Services.

EXTRA-CURRICULARS

Outside the normal school period, there is the extra moral class organized by the school for students so as to enhance their academic performance as well as keeping them busy (personal reading, attending lessons) during the hours of 2pm to 4pm.

Another interesting aspect of the school curricular is the introduction of clubs and societies, which constitute part of the school extra-curricular activities. This clubs include: Computer club, Current Affairs club, Literary and debate Club etc. This makes the students develop both socially and in morals. The computer teacher usually heads the computer club. The existence of this club has not in any way changed their conventional way of data management. Hence the purpose for this project write up.

2.3 GENERAL CONCEPT OF A SYSTEM AND ITS ANALYSIS

A system as earlier defined is an organized, interacting, interdependent and integrated components (S.T Calys). A system must manage its interacting components so as to achieve it desired objective. A good system must be simple, flexible, reliable, economical adaptive and acceptable.

SYSTEM ANALYSIS

This is the method of evaluating the efficiency of a system. The result of which might necessitate the need for improvement, which will then require the incorporation of other resources. This might include computer

application as well as other resources to enhance the present system so as to meet the required objective of the organization. System analysis is concerned with converting the objectives of the management as far as information and data are concerned into methods that are amenable process by a computer. There is the need for the components to be examined and for them also to interact in a way that will make the goal attainable.

System analysis consists of a number of steps to be observed and taken into consideration so as to yield a good result.

- a. Good identification of the problem and a preliminary survey conducted to ascertain the necessity for a new and improved system.
- Feasibility study required for further definition of the problem,
 investigating it and look for all possible alternative solution.
- c. Critical analysis of the present or current system and the objective of the proposed system defined, so as to meet the required need.
- d. The above analysis should lead to a number of possible alternative designs. Once the alternative is been selected, the designing requires that a new system be produced on the basis of requirement specifications.
- e. The type of hardware and software that are needed should be chosen and acquired, or to write the needed software.
- f. The new system should be implemented. This include:

- i. design, write and test computer program.
- ii. Train users
- iii. Test clearable procedures
- iv. Documentation
- v. Create files
- vi. Cut-out to new system
- g. when the system is implemented and is in full operation, it is reexamined to see if it has met the required objective(s) set out in the
 original specification. It should be frequently reviewed and
 maintained.

2.4 THE GRADING SYSTEM OF COMMUNITY SECONDARY SCHOOL ASOKORO AND IT ANALYSIS

As for Community Secondary School, Asokoro, the conventional (manual) grading system is still in use. This tends to be too laborious, time wasting and inaccurate, because of human imperfections. Hence, the need to review and improve the current system, which is almost obsolete considering the today's world technological trend.

In general the structure of the grading system is shown below;

Table 1

SCORE	GRADE	REMARK
75 and above	A1	Excellent
70 – 74	A2	Very Good
65 – 69	A3	Good
60 - 64	C4	Credit
55 –59	C5	Credit
50 – 54	C6	Credit
45 – 49	P7	Fair Pass
40 – 44	P8	Pass
<=39	F9	Fail

The general performance is shared into two parts. Namely;

- Continuous Assessment 40 marks
- Examination 60 marks

Detailed analysis now considers the Junior Secondary School separately from the Senior Secondary School. This tends to give a slight variation.

In the Junior Secondary School, for a student to be promoted from one lower class to another higher class (JSS1 – JSS2), the student must make or

obtain not less than 50% in Mathematics and English as well as having an a total score of 500 in the 13 subjects offered. Though this is not constant, with sometimes variation. An average of the total score obtained is found and when the average is 45% and above the student is considered to have passed.

The subjects to be offered for the Junior Secondary School include:

English Language Mathematics

Business Studies Integrated Science

Religious Studies Social Studies

Music One Nigerian Language

Introductory technology Fine Art

Computer Science

To be qualified for the award of the Junior Secondary School Certificate (JSSCE), conducted by the ministry of education a student must obtain a pass in English, Mathematics, Integrated Science and Social Studies, with at least any other 3 subjects.

The Senior Secondary School is not exceptional though the system seems to be slightly varied. The grading system is seen from table 2. For the purpose of promotion to a higher class (say SSS 1 – SSS2), a student must meet certain conditions. Though this conditions varies with circumstances; such as when there is a mass failure due to administrative or managerial inefficiency or any other circumstance.

Subjects available at the Senior Secondary School are grouped into the Pure Sciences, Commercial and Arts. Hence, students are to make their subject options from the list below base on their area of choice.

English

Mathematics

Biology

Agricultural Science

Geography

Economics

Chemistry

Physics

Religious Studies

Government

Commerce

History

Food and Nutrition

Technical Drawing

Literature in English

Music

French

Arabic Language

So for any student the choice of subject should not be less than 8 and not more than 10.

To be qualified for promotions, a student should obtain credit passes in English and mathematics i.e 50% in both and must have a total score greater than 450 in all subjects registered. Although the management might alter these condition based on reasons stated above. But for the purpose of the SSCE (Senior Secondary Examinations) each student should register for at least 8 and at most 9 subjects. This includes the 5 core subjects; English Mathematics, a science subject, a social science subject, an art subject and

one Nigerian language. Any registration that does not satisfy this condition is considered as incomplete registration

CHAPTER THREE

SYSTEM DESGIN

3.1 INTRODUCTION

Design means applying several techniques and principles for the purpose of defining the system in sufficient details to permit its physical realization. The content, structure of the proposed database as well as the method of retrieval are our main objective in this chapter. The kind of report required is also of immense importance as well as the available input and output required to produce the expected result.

3.2 DESIGN OF SYSTEM INPUT MEDIA

Every system that is designed has a specific input requirement to be able to meet the users output expectation. Base on this the proposed system also requires some basic input. These include the following:

- Result Sheet
- Report Sheet and
- Subject Registration form

Result Sheet:

This is usually prepared by the individual class teachers for the entire class. The name of the class and subject offered is presented in a tabular form. The mark scored by each student is filled against the student name and the respective subjects. The over all performance of all the students is then

displayed, from which other reports may be prepared. The fig 3.1 below gives an overview of a result sheet for the sciences.

NAME	-			SUBJECT			
	Eng	Maths Bio	Chem	Physic	Geo	Hist	Econs
					THE STATE OF		

Fig 3.1

Report Sheet:

This is usually prepared for each class members. It includes the Name of students, Class, Year, Attendance, Sex, Age, No in Class, House and Academic performance. The report sheet contains all the subjects offered in school and the ones the student offered are filled with the scores against the respective subjects offered. The report sheet is usually given to student at the end of the term after the examinations are conducted. They show the overall performance of each student. An example sheet is shown below in fig 3.2

Subject registration Form:

This form contains vital information about the student needed for the student registration of subjects either at the school level of external

examination requirement. It contains: Name of Student, Class, Sex, Age, Sign of student. See fig 3.3 below.

Name	of studen	t (surname	first)	
Class	. Sex	. Age	Signat	ure of Student
S/NO	SUBJECT	NAME OF TEA	CHER	SIGN OF TEACHER
				A CONTRACTOR

3.3 STUDENT HISTORY FILE

This contains vital information required about each student from the day of absorption into the school to the day he/she leaves the school. This essentially consist of the following:

- (a) Personal Particulars
- (b) Activities and Achievements
- (c) Personal Qualities and
- (d) Details of transfer

Personal particulars consist of information about birth, place of birth, home town, state, nationality, tribe and religion. Others includes; school attended, address, parents name and address and medical history of the student.

The Activities and Achievement include office held when in school, clubs and societies Games and honours, position in class (Academic)

Personal qualities include: honesty, integrity, work and study habit, teamwork, imitative self-control, sense of responsibility, loyalty, neatness and games activities.

Details of transfer refers to information about date of transfer, purpose for transfer copy of history, career information (career interest) suitability and remarks.

3.4 DESIGN OF OUTPUT MEDIA

The suitability and quality of the system output is what determines it acceptability as being able to give the desired result. It is the primary contact between the user and the system.

Here our output is on the student examination records and will often be required whenever examinations are conducted with accurate and timely results expected. Also necessary when new students are admitted (may be on transfer from other schools), or when students are leaving the school to other schools for any purpose. The output will be required to update their academic performance and also for proper statistic of new students admitted into the school.

To the student and parents, the output is very important so as to evaluate their academic performance and also when the student is leaving the

school for other schools it will also be required. Also examination bodies such as WAEC and NECO may require the output for the purpose of student registration for both the junior and senior certificate examination.

The output required by the student and parents is in the form of report sheet while the examination bodies as well as other educational organizations will require just the summary of the students result.

(a) Information about Student: this consists of:

Reg. No

Name

Other names

Sex:

Age

State

Class of Student

C.A for each student: Scores of each student

Grade;

Session:

Remark:

- (b) Result of individual Students: this consist of the subjects registered and the student performance in each subject.
- List of promoted students: all students who meet the criteria for promotion to the next class. This criteria varies as earlier discussed in chapter two. Hence, it can be reviewed based on the present condition. Such criteria include credit passes in 5 subjects and other 2 passes. For the purpose of

WAEC, the conditions for registration include: English, Mathematics, One Nigerian Language, others are

- One science subject (Biology, Chemistry, Physic Agriculture
- One social science (Literature in English, Economics, Geography, History)
- One vocational subject (Account, Commerce, Home economic, wood work Technical work etc). Plus any other two subjects or at most three.
 The students who do not meet up with the above requirement either for promotion or registration purpose will now constitute the next form of out put media.
- (d) List of unpromoted Students: those who do not meet up with the above promotion criteria will not be promoted. As for the WAEC registration, students who do not meet up with the registration requirement will be considered as incomplete registration.

3.5 CREATION OF DATABASE FILES

Database is the collection of interrelated data stored together with minimum redundancy to serve multiple applications with the data stored in such way that it is independent of the hardware on which it is stored. When a database is organized and stored on auxiliary storage facilities, application program can refer to data in the database independent of how the data is arranged or organized. A database is one or more files, which is a collection

of related information stored together. Hence, a database include at one database file. Our database file include the following:

- (a) Personal Record
- (b) Family Data
- (c) Health Record
- (d)Personal development
- (e) Educational Background
- (f) Academic Performance

DATA TO BE CAPTURED FOR DBMS DESIGN

FORM DESIGN A

PERSONAL RECORD FORM

- 1. Name of student surname first
- 2. Date of birth
- 3. Place of birth
- 4. Age
- 5. Sex(m/f)
- 6. Permanent home address
- 7. Contact address
- 8. State of origin
- 9. Home town
- 10. L.G.A
- 11. Language spoken
- 12. Nationality (non Nigerian only)
- 13. Religion

- 14. Passport photograph
- 15. Admission

FORM DESIGN B

DATA ON FAMILY BACKGROUND

- 1. Father's name
- 2. Residential address
- 3. Contact address
- 4. Highest education level
- 5. Occupation
- 6. State of origin
- 7. Home town
- 8. LGA
- 9. Religion
- 10. Phone no.
- 11. Mother's name
- 12. Residential address
- 13. Contact address
- 14. Highest educational level
- 15. Occupation
- 16. State of origin
- 17. Home town
- 18. LGA
- 19. Guidance's name
- 20. Residential, address
- 21. Contact address
- 22. Highest education level
- 23. Occupation

- 24. State of origin
- 25. Home town
- 26. Religion
- 27. Telephone no.

HOME BACKGROUND DATA

- 1. Father's number of wives
- 2. Position of mother
- 3. Position of student among siblings
- 4. Parent's marriage situation (separate, divorce)
- 5. Father deceased or mother deceased

HEALTH DATA RECORDS

- 1. Any special health problem (yes/no).
- 2. Physical disability
- 3. Specify immunization in te past 2 years

PHYSICAL DEVELOPMENT

- 1. Height and weight
- 2. Habit that needs to be recoded

EDUCATIONAL BACKGROUND OF STUDENT

- 1. Name of school attended
- 2. Class read
- 3. From which year to what year
- 4. Reason for leaving former school
- 5. Any post held
- 6. Club and society (Post held if any)

7. Sports and achievement

ACADEMIC RECORD

The academic record to be captured for the students varies from JS classes to SS classes, in the SS classes they are distributed into (Science Commercial and Arts) with different requirement as specified below:

JS CLASS

- 1. Admission no.
- 2. Student name (surname)
- 3. Term
- 4. Session
- 5. Class
- 6. English
- 7. Maths
- 8. Integrated Science
- 9. Social Studies
- 10. Business Studies
- 11. Introductory Technology
- 12. CRS
- 13. IRS
- 14. Fine Arts
- 15. Yoruba
- 16. Hausa
- 17. Igbo
- 18. Arabic
- 19. Agric
- 20. Home Economics

- 21. French
- 22. Music
- 23. Physical Education
- 24. Computer
- 25. Remarks

ANALYSIS ON JS RESULT

- i. Compute each student's Total score
- ii. Compute and Generate REMARK to show if student Passed or Failed

NOTE:-

Students must score at least 50% in English and Mathematics (this is compulsory), the students **must** also pass at least 8 more subjects for him/her to pass or promoted as the case may be. That is to say a student must 50% in at least 10 subjects to pass out of the total number of course offered. In JSS classes.

If a student repeats a class 2 times he/she is expected to withdraw from the school.

Admission No.:	Remark	
NAMES (Surname	first):	passport
Students age	Sex C	Class
*	Subjects	
Maths	Inter science	Agric
English	IRS	CRS

FORMAT A

DATA TO BE CAPTURED FOR SS SCIENCE CLASSES

- 1. Student's Name
- 2. Admission no.
- 3. Sex
- 4. Age
- 5. Class
- 6. Term
- 7. Session
- 8. Maths
- 9. English
- 10. Biology
- 11. Chemistry
- 12. Physics
- 13. Further Maths

- 14. Agric
- 15. Geography
- 16. Economics
- 17. Food and nutrition
- 18. CRS
- 19. IRS
- 20. French
- 21. Remarks

ANALYSIS TO BE COMPUTED

- i. Total Score
- ii. REMARKS showing PASSED or FAILED

NOTE:

Student must score at least 50% in English, Maths and any 2 of the following: Chemistry Biology and Physics with four other subjects making a total of eight subject to be passed at 50%, to qualify for a student to pass or be promoted, if a student fails 2 times he/she is to withdraw.

DATA CAPTURE FOR SS COMMERCIAL CLASSES

- 1. Name of students
- 2. Student age
- 3. Student sex
- 4. Term
- 5. Session
- 6. Class
- 7. Mathematics
- 8. English

- 9. Biology
- 10. Economics
- 11. Geography
- 12. Accounts
- 13. Fine Art
- 14. Yoruba
- 15. Hausa
- 16. Igbo
- 17. Agric
- 18. IRS
- 19. CRS
- 20. Arabic
- 21. History
- 22. Government
- 23. Literature in English
- 24. Food & Nutrition
- 25. French
- 26. Remarks

COMPUTED ANALYSIS

- i. Compute the Total score for each students
- ii. Generate Remark PASSED or FAILED procedure

Students must pass at least 8 subjects at 50% out of which 2 of either Commerce, Accounts, Economics and any other four (English and Math Compulsory).

CAPTURE DATA FOR ART CLASSES

- 1. Names
- 2. Admission no.
- 3. SEX (M/F)
- 4. Class
- 5. Term
- 6. Session
- 7. Age
- 8. English
- 9. Math
- 10. Literature in English
- 11. Yoruba
- 12. Igbo
- 13. Hausa
- 14. IRS
- 15. CRS
- 16. History
- 17. Government
- 18. Geography
- 19. Commerce
- 20. French
- 21. Arabic
- 22. Fine Art
- 23. Agric
- 24. Remarks.

ANALYSIS TO BE COMPUTED

(i) Compute the Total score.

(ii) Remark should indicate if the student failed or passed.

Note: The condition for passing a student is as fallows:

Each student is expected to pass at least 50% in 8 subjects (English & Maths

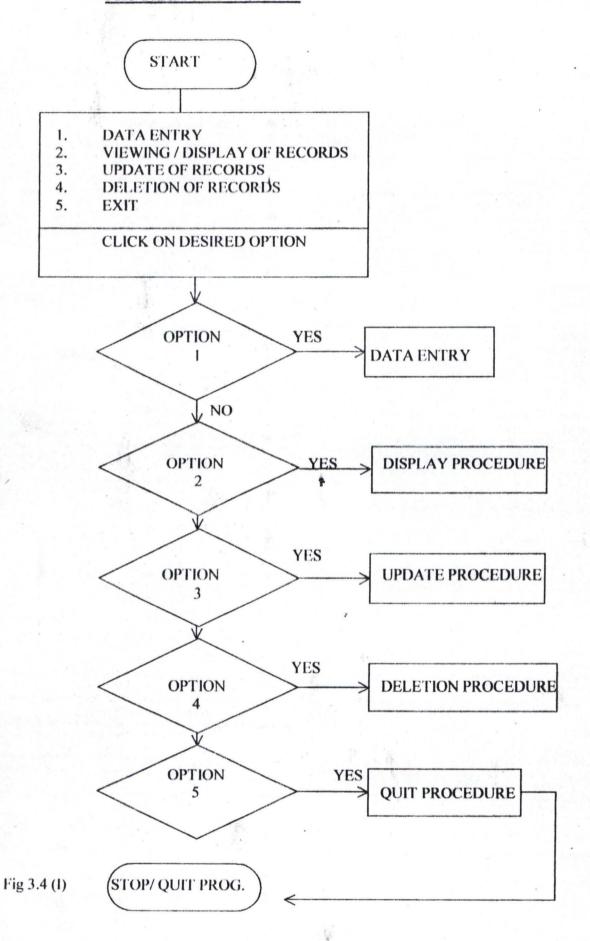
Compulsory) with two others of Government, Literature, Fine Art and History.

A student is expected to withdraw from school, if repeating the second time.

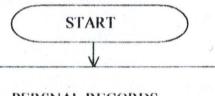
DISPLAYING OR VIEWING OF RECORDS.

ADMISSION	C. 3. 566 C.) C. C.	Passport
NAME [AGE	Photograph
SEX	CLASS	i Remit sessionary
TERM	SESSIO	REMAR
	SUBJECT SCORES	
ENGLISH	AGRIC	TOTALS

PROGRAM FLOW CHART



DATA ENTRY PROCEDURE



- 1. PERSNAL RECORDS
- 2. ACADEMIC RECORDS
- 3. RETURN TO MAIN PROGRAM

CLICK ON DESIRED OPTION

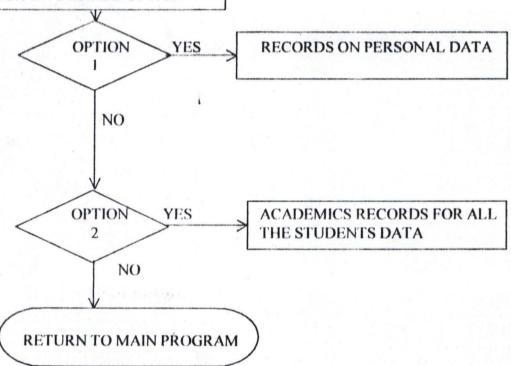
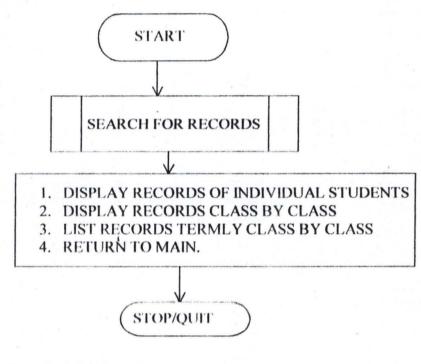


Fig 3.4 (ii)

DISPLAY OR VIEW PROCEDURE



UPDATE PROCEDURE

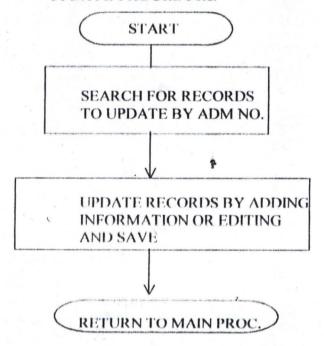


Fig 3.4 (iii)

DELETE PROCEDURE

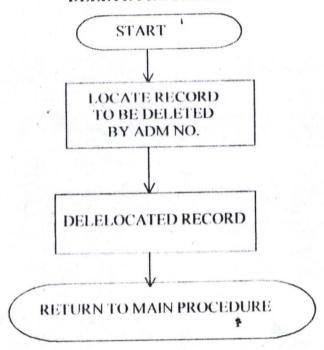


Fig 3.4 (iv)

CHAPTER FOUR

4.1 SYSTEM IMPLEMENTATION

Program implementation deals with putting into use a newly created information system and its on going operation. This involves the implementation of how to translate the system design and specification into instructions that can be interpreted and executed by the computer. This of course is the programming phase of the system development process.

The new system is coded using the QUICK BASIC dialect. With the use of this language, there is the simplicity of coding and ease of learning and understanding on the part of the user staff. The user staff should therefore be given the right orientation as well as proper training to ensure the proper implementation of the new system.

4.2 SYSTEM REVIEW

The operational, economical and technical feasibility of a new system is vital to the success of particular organizational information need. The review of the system carried out to meet the organizational need. The dynamic needs are operation of an organization call for a timely adjustment.

4.3 SYSTEM TESTING

There is great need for program testing as this will enhance debugging and error correction. To this end the system analyst must provide the

necessary data for both the simulate and real life testing process. There must be an afore knowledge of the expected result so as to ensure accuracy by comparison with the system result.

4.4 SYSTEM CONVERSION/INSTALLATION

There are several methods of installing a new system.

This is achieved by various method of system conversion. These include.

- I. Direct change over
- II. Parallel change over
- III. Pilot change over
- IV. Phased change over

The most appropriate for this system is the phased change over. The data being introduced in to the new system piece by piece i.e a complete logical section is introduce into the new system after results are obtained from the old system and the results are compared. This method is less complex, less risky.

4.5 SYSTEM MAINTENANCE

For a system to be kept functional, it has to be properly maintained.

This can take the form of servicing equipment and more intensive staff training in conformity with current technical trend. Also backup copies for software and document stored should be made to ensure safety form

corruption of original copies. Preventive measures are also essential to protect the software and files against virus attack.

4.6 DOCUMENTATION

This is a logical description of how the system works on the computer system. It will serve as guide to the user, as to how to apply the system.

Program documentation is essential as it makes it easy to understand the program description and implementation.

The user can operate the new system thus:

- a. Load QBASIC45 from the DOS environment using the DOS prompt C:\>, or click on the QBASIC45 Icon
- b. Load the program code by clicking on FILE and the OPEN, click on the File name then click on OK
- c. Choose options as appropriate on the screen

CHAPTER FIVE

5.1 SUMMARY

This study has examined the importance of computer application in the grading system of Community Secondary School Asokoro, Abuja. We have been able to show that computer is useful—in processing and keeping of student records with a high level—of precision and accuracy, as well as fast retrieval speed. It will enable staff and management access information easily and accurately reducing stress and time wastage. Hence more time is dedicated to teaching and other curricular activities.

Also information about the day to day running of the school as well as other administrative activities are being enhanced using the computer.

Although the programming language used is simple and easy to understand, the ability of the user staff being able to implement the new system poses a little problem, but this can be solved by the proper orientation training that will be accorded the staff as included in the implementation plan.

Other problems which can be easily solved are the availability of training materials as well as the training staff. Though this will require some amount of money. I believe it will be less expensive in comparison with other programming language, which I really think the organization is up to the task.

5.2 RECOMMENDATIONS

In view of the viability and simplicity associated with this system as well as the little limitations or problems, the following recommendation will be deemed fit;

- There should be available human and material resources for the successful installation and implementation of the system.
- Initiate computer training program for members of staff. Providing necessary manuals for such training.
- Improvements should be made to the system when necessary as it might become obsolete as the trend of computer technology advances.
- Acquire standard and competent hardware resources for efficient operation.
- Give incentives to user staff where necessary to improve their use of the system.

5.3 CONCLUSION

Computer has to a great extent influenced the standard of education positively, considering it as an effective learning tool and also as a good tool for record keeping. Examination Grading process is therefore made easy, efficient and effective through the application of computer.

REFERENCE

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Printed and Publisher: Bounty Press Ltd Pg 103 - 134

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REM Computerization Of Community Staff School Asokoro Student Record BG: CLS

FOR J = 4 TO 70 LOCATE 6, J: PRINT "*" NEXT

FOR J = 4 TO 70 LOCATE 25, J: PRINT "*" NEXT

FOR K = 7 TO 24 LOCATE K, 4: PRINT "*" NEXT

FOR K = 7 TO 24 LOCATE K, 71: PRINT "*" NEXT

LOCATE 8, 20: PRINT " SENIOR SECONDARY SCHOOL RECORDS "; SNR\$
LOCATE 18, 20: PRINT " JUNIOR SECONDARY SCHOOL RECORDS "; JNR\$
LOCATE 22, 20: PRINT " EXIT PROGRAM"
LOCATE 27, 9: PRINT " MAKE YOUR CHOICE BY SELECTING <S> FOR SENIOR
SECONDARY"
LOCATE 29, 9: INPUT " <J> FOR JUNIOR SECONDARY AND <E> TO EXIT
FROM APPLICATION "; CAT\$

IF UCASE\$(CAT\$) = "J" THEN

GOTO JSS GOTO BG ELSEIF UCASE\$(CAT\$) = "S" THEN GOSUB SS GOTO BG

ELSEIF UCASE\$(CAT\$) = "E" THEN
GOTO EX
ELSE
GOTO BG
END IF

JSS:

CLS

LOCATE 10, 15: PRINT " [E] FOR RECORDS OR DATA ENTRY OPERATION" LOCATE 20, 15: PRINT "[P] FOR RECORDS PRINTING OPERATION" LOCATE 25, 15: PRINT "[A] FOR APPENDING OF RECORDS OPERATION" LOCATE 29, 8: INPUT " MAKE YOUR CHIOCE "; CH\$

IF UCASE\$(CH\$) = "E" THEN
OPEN "JSSDATA.DAT" FOR OUTPUT AS #1
GOSUB INJSS
GOTO BG
ELSEIF UCASE\$(CH\$) = "P" THEN
OPEN "JSSDATA.DAT" FOR INPUT AS #1

GOSUB PRJSS
GOTO BG
ELSEIF UCASE\$(CH\$) = "A" THEN

OPEN "JSSDATA.DAT" FOR APPEND AS #1

GOSUB INJSS GOTO BG ELSE GOTO EX END IF

INJSS:

DO

CLS

LOCATE 2, 8: INPUT " ENTER STUDENT NAMES SURNAME INCLUSIVE"; NAM\$

LOCATE 3, 8: INPUT " ENTER STUDENT MATRIC NUMBER "; MATNO\$

LOCATE 4, 8: INPUT " ENTER STUDENT AGE "; AG\$

LOCATE 5, 8: INPUT "ENTER STUDENT CLASS"; CLA\$

LOCATE 6, 8: INPUT "ENTER SESSION"; SES\$

LOCATE 7, 8: INPUT "ENTER SCORE IN ENGLISH LANGUAGE"; ENG%

LOCATE 8, 8: INPUT " ENTER SCORE IN MATHEMATICS"; MAT%

LOCATE 9, 8: INPUT " ENTER SCORE IN INTERGRATED SCIENCE"; INTSCI%

LOCATE 10, 8: INPUT "ENTER SCORE IN INTRODUCTORY TECHNOLOGY "; INTROTECH%

LOCATE 11, 8: INPUT " ENTER SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE"; CRS%

LOCATE 12, 8: INPUT " ENTER SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE"; IRS%

LOCATE 13, 8: INPUT " ENTER SCORE IN AGRIC SCIENCE "; AGRIC%

LOCATE 14, 8: INPUT " ENTER SCORE IN FINE ART "; FART%

LOCATE 15, 8: INPUT "ENTER SCORE IN COMPUTER STUDIES"; COMP%

LOCATE 16, 8: INPUT "ENTER SCORE IN HOME ECONOMICS"; HOMEC%

LOCATE 17, 8: INPUT " ENTER SCORE IN MUSIC "; MUS%

LOCATE 18, 8: INPUT " ENTER SCORE IN ARABIC LANGUAGE"; ARAB%

LOCATE 19, 8: INPUT " ENTER SCORE IN BUSINESS STUDIES"; BUS%

WRITE #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, INTSCI%, INTROTECH%, CRS%, IRS%, AGRIC%, FART%, COMP%, HOMEC%, MUS%, ARAB%, BUS%

INPUT " DO YOU WANT TO ADD MORE RECORDS"; ANS\$

LOOP WHILE UCASE\$(ANS\$) = "Y"

CLOSE #1

GOTO BG RETURN

CLS

PRJSS:

DO WHILE NOT EOF(1)

CLS

INPUT #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, INTSCI%, INTROTECH%, CRS%, IRS%, AGRIC%, FART%, COMP%, HOMEC%, MUS%, ARAB%, BUS%

TT& = ENG% + MAT% + INTSCI% + INTROTECH% + CRS% + IRS% + AGRIC% + FART% + COMP% + HOMEC% + MUS% + ARAB% + BUS%

AV! = TT& / 13

IF MAT% >= 50 AND ENG% >= 50 AND TT& >= 500 THEN

RE\$ = "PASSED"

ELSE

RE\$ = "FAILED"

END IF

LOCATE 2, 8: PRINT " STUDENT NAMES ", NAM\$ LOCATE 3, 8: PRINT " STUDENT MATRIC NUMBER ", MATNO\$ LOCATE 4, 8: PRINT " STUDENT AGE ", AG\$

LOCATE 5, 8: PRINT " STUDENT CLASS ", CLA\$

LOCATE 6, 8: PRINT " SESSION", SES\$

LOCATE 7, 8: PRINT " SCORE IN ENGLISH LANGUAGE", ENG%

LOCATE 8, 8: PRINT " SCORE IN MATHEMATICS", MAT%

LOCATE 9, 8: PRINT " SCORE IN INTERGRATED SCIENCE", INTSCI%

LOCATE 10, 8: PRINT " SCORE IN INTRODUCTORY TECHNOLOGY ", INTROTECH%

LOCATE 11, 8: PRINT " SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE", CRS%

LOCATE 12, 8: PRINT " SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE", IRS%

LOCATE 13, 8: PRINT " SCORE IN AGRIC SCIENCE ", AGRIC%

LOCATE 14, 8: PRINT " SCORE IN FINE ART ", FART%

LOCATE 15, 8: PRINT "SCORE IN COMPUTER STUDIES", COMP%

LOCATE 16, 8: PRINT " SCORE IN HOME ECONOMICS", HOMEC%

LOCATE 17, 8: PRINT " SCORE IN MUSIC ", MUS%

LOCATE 18, 8: PRINT " SCORE IN ARABIC LANGUAGE", ARAB%

LOCATE 19, 8: PRINT " SCORE IN BUSINESS STUDIES", BUS%

LOCATE 20, 8: PRINT " TOTAL SCORE IS ", TT&

LOCATE 21, 8: PRINT "FINAL REMARK ON STUDENT ", RE\$

SLEEP

LOOP

CLOSE #1

RETURN

SS:

CLS

LOCATE 5, 12: PRINT " DATA OPERATION FOR SCIENCE CLASS " LOCATE 10, 12: PRINT " DATA OPERATION FOR ART CLASS " LOCATE 15, 12: PRINT " DATA OPERATION COMMERCIAL CLASS"

LOCATE 20, 6: INPUT " ENTER YOUR CHOICE <S> FOR SCIENCE <A> FOR ARTS and <C> FOR COMMERCIAL"; CH\$

IF UCASE\$(CH\$) = "S" THEN
GOSUB SCIENCE
ELSEIF UCASE\$(CH\$) = "A" THEN GOSUB ART
GOSUB ART
ELSEIF UCASE\$(CH\$) = "C" THEN GOSUB COMMERCIAL

GOSUB COMMERCIAL

ELSE GOTO BG END IF

SCIENCE:

CLS

LOCATE 10, 15: PRINT " [E] FOR RECORDS OR DATA ENTRY OPERATION" LOCATE 20, 15: PRINT "[P] FOR RECORDS PRINTING OPERATION" LOCATE 25, 15: PRINT "[A] FOR APPENDING OF RECORDS OPERATION" LOCATE 29, 8: INPUT " MAKE YOUR CHIOÇE "; CH\$

IF UCASE\$(CH\$) = "E" THEN
OPEN "SCIENDAT.DAT" FOR OUTPUT AS #1
GOSUB INSCIENCE
GOTO EX
ELSEIF UCASE\$(CH\$) = "P" THEN
OPEN "SCIENDAT.DAT" FOR INPUT AS #1

GOSUB PRSCIENCE GOTO BG ELSEIF UCASE\$(CH\$) = "A" THEN

OPEN "SCIENDAT.DAT" FOR APPEND AS #1

GOSUB INSCIENCE GOTO BG ELSE GOTO BG END IF

INSCIENCE:

DO

CLS

INPUT " ENTER STUDENT NAMES SURNAME INCLUSIVE"; NAM\$
INPUT " ENTER STUDENT MATRIC NUMBER "; MATNO\$
INPUT " ENTER STUDENT AGE "; AG\$
INPUT " ENTER STUDENT CLASS "; CLA\$
INPUT " ENTER SESSION"; SES\$
INPUT " ENTER SCORE IN ENGLISH LANGUAGE"; ENG%
INPUT " ENTER SCORE IN MATHEMATICS"; MAT%
INPUT " ENTER SCORE IN CHEMISTRY"; CHEM%
INPUT " ENTER SCORE IN PHYSICS "; PHY%
INPUT " ENTER SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE"; CRS%

*

INPUT "ENTER SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE"; IRS% INPUT "ENTER SCORE IN AGRIC SCIENCE"; AGRIC% INPUT "ENTER SCORE IN FOOD AND NUTRITION"; FOOD% INPUT "ENTER SCORE IN ARABIC LANGUAGE"; ARAB% INPUT "ENTER SCORE IN BIOLOGY"; BIO% INPUT "ENTER SCORE IN FUTHER MATHEMATICS"; FMAT% INPUT "ENTER SCORE IN GEOGRAPHY"; GEO% INPUT "ENTER SCORE IN TECHNICAL DRAWING"; TD%

WRITE #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, CHEM%, PHY%, CRS%, IRS%, AGRIC%, FOOD%, ARAB%, BIO%, FMAT%, GEO%, TD%

INPUT "ENTER MORE RECORDS"; ANS\$
LOOP WHILE UCASE\$(ANS\$) = "Y"
CLOSE #1
RETURN

PRSCIENCE:

DO WHILE NOT EOF(1)

INPUT #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, CHEM%, PHY%, CRS%, IRS%, AGRIC%, FOOD%, ARAB%, BIO%, FMAT%, GEO%, TD%

TT& = ENG% + MAT% + CHEM% + PHY% + CRS% + IRS% + AGRIC% + FOOD% + ARAB% + BIO% + FMAT% + GEO% + TD%
AV! = TT& / 9
IF MAT% >= 50 AND ENG% >= 50 AND TT& >= 450 THEN
RES\$ = "PASSED"
ELSE

RES\$ = "FAILED" END IF

CLS

PRINT "STUDENT NAMES SURNAME INCLUSIVE", NAM\$
PRINT "STUDENT MATRIC NUMBER ", MATNO\$
PRINT "STUDENT AGE ", AG\$
PRINT "STUDENT CLASS ", CLA\$
PRINT "SESSION"; SES\$
PRINT "SCORE IN ENGLISH LANGUAGE", ENG%
PRINT "SCORE IN MATHEMATICS", MAT%
PRINT "SCORE IN CHEMISTRY", CHEM%
PRINT "SCORE IN PHYSICS ", PHY%
PRINT "SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE", CRS%
PRINT "SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE", IRS%

PRINT "SCORE IN AGRIC SCIENCE ", AGRIC%
PRINT "SCORE IN FOOD AND NUTRITION", FOOD%
PRINT "SCORE IN ARABIC LANGUAGE", ARAB%
PRINT "SCORE IN BIOLOGY", BIO%
PRINT "SCORE IN FUTHER MATHEMATICS", FMAT%
PRINT "SCORE IN GEOGRAPHY", GEO%
PRINT "SCORE IN TECHNICAL DRAWING", TD%
PRINT "TOTAL SCORE IS ", TT&
PRINT "FINAL REMARK ON STUDENT ", RES\$

SLEEP LOOP CLOSE #1 RETURN

ART:

CLS

LOCATE 10, 15: PRINT " [E] FOR RECORDS OR DATA ENTRY OPERATION" LOCATE 20, 15: PRINT "[P] FOR RECORDS PRINTING OPERATION" LOCATE 25, 15: PRINT "[A] FOR APPENDING OF RECORDS OPERATION" LOCATE 29, 8: INPUT " MAKE YOUR CHIOCE "; CH\$

IF UCASE\$(CH\$) = "E" THEN
OPEN "ARTDATA.DAT" FOR OUTPUT AS #1
GOSUB INART
GOTO BG
ELSEIF UCASE\$(CH\$) = "P" THEN

OPEN "ARTDATA.DAT" FOR INPUT AS #1

GOSUB PRART GOTO BG ELSEIF UCASE\$(CH\$) = "A" THEN

OPEN "ARTDATA.DAT" FOR APPEND AS #1
GOSUB INART
GOTO BG
ELSE
GOTO BG
END IF

INART: DO INPUT " ENTER STUDENT NAMES SURNAME INCLUSIVE"; NAM\$

INPUT "ENTER STUDENT MATRIC NUMBER"; MATNO\$

INPUT "ENTER STUDENT AGE "; AG\$

INPUT " ENTER STUDENT CLASS "; CLA\$

INPUT " ENTER SESSION"; SES\$

INPUT " ENTER SCORE IN ENGLISH LANGUAGE"; ENG%

INPUT "ENTER SCORE IN MATHEMATICS"; MAT%

INPUT "ENTER SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE"; CRS%

INPUT "ENTER SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE"; IRS%

INPUT " ENTER SCORE IN FINE ART "; FART%

INPUT "ENTER SCORE IN FOOD AND NUTRITION"; FOOD%

INPUT "ENTER SCORE IN MUSIC"; MUS%

INPUT "ENTER SCORE IN ARABIC LANGUAGE"; ARAB%

INPUT " ENTER SCORE IN HISTORY"; HIST%

INPUT "ENTER SCORE IN BIOLOGY"; BIO%

INPUT "ENTER SCORE IN FRENCH": FREN%

INPUT "ENTER SCORE IN ECONOMICS"; ECONS%

INPUT "ENTER SCORE IN GOVERNMENT"; GOVT%

INPUT "ENTER SCORE IN ENGLISH LITERATURE"; ENGLIT%

WRITE #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, CRS%, IRS%, FART%, FOOD%, MUS%, ARAB%, HIST%, BIO%, FREN%, ECONS%, GOVT%, ENGLIT%
INPUT " ADD MORE RECORDS?"; ANS\$
LOOP WHILE UCASE\$(ANS\$) = "Y"

CLOSE #1

RETURN

PRART:

DO WHILE NOT EOF(1)

INPUT #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, CRS%, IRS%, FART%, FOOD%, MUS%, ARAB%, HIST%, BIO%, FREN%, ECONS%, GOVT%, ENGLIT%

TT& = ENG% + MAT% + CRS% + IRS% + FART% + FOOD% + MUS% + ARAB% + HIST% + BIO% + FREN% + ECONS% + GOVT% + ENGLIT% AVG! = TT& / 9

IF MAT% >= 50 AND ENG% >= 50 AND TT& >= 450 THEN RE\$ = "PASSED"

ELSE

RE\$ = "FAILED"

END IF

CLS

PRINT " NAMES SURNAME INCLUSIVE", NAM\$

PRINT " MATRIC NUMBER ", MATNO\$

PRINT " AGE ", AG\$

PRINT " CLASS ", CLA\$

PRINT " SESSION", SES\$

PRINT " ENGLISH LANGUAGE", ENG%

PRINT " MATHEMATICS", MAT%

PRINT " CHRISTIAN RELIGIOUS KNOWLEDGE", CRS%

PRINT " ISLAMIC RELIGIOUS KNOWLEDGE", IRS%

PRINT " FINE ART ", FART%

PRINT " FOOD AND NUTRITION", FOOD%

PRINT " MUSIC ", MUS%

PRINT " ARABIC LANGUAGE", ARAB%

PRINT " HISTORY", HIST%

PRINT " BIOLOGY", BIO%

PRINT " FRENCH ", FREN%

PRINT " ECONOMICS ", ECONS%

PRINT " GOVERNMENT ", GOVT%

PRINT " LITERATURE", ENGLIT%

PRINT " AVRAGE SCORE ", AVG!

PRINT " TOTAL SCORE ", TT&

PRINT " FINAL REMARK ", RE\$

LOOP

CLOSE #1

RETURN

COMMERCIAL:

CLS

LOCATE 10, 15: PRINT " [E] FOR RECORDS OR DATA ENTRY OPERATION" LOCATE 20, 15: PRINT "[P] FOR RECORDS PRINTING OPERATION" LOCATE 25, 15: PRINT "[A] FOR APPENDING OF RECORDS OPERATION" LOCATE 29, 8: INPUT " MAKE YOUR CHIOCE "; CH\$

IF UCASE\$(CH\$) = "E" THEN
OPEN "COMERDATA.DAT" FOR OUTPUT AS #1
GOSUB INCOMMERCIAL
GOTO BG

ELSEIF UCASE\$(CH\$) = "P" THEN
OPEN "COMERDATA.DAT" FOR INPUT AS #1

GOSUB PRCOMMERCIAL
GOTO BG
ELSEIF UCASE\$(CH\$) = "A" THEN

OPEN "COMERDATA.DAT" FOR APPEND AS #1

GOSUB INCOMMERCIAL GOTO BG ELSE GOTO BG END IF

CLS

INCOMMERCIAL: DO

INPUT " ENTER STUDENT NAMES SURNAME INGLUSIVE"; NAM\$ INPUT " ENTER STUDENT MATRIC NUMBER "; MATNO\$ INPUT " ENTER STUDENT AGE "; AG\$ INPUT " ENTER STUDENT CLASS "; CLA\$ INPUT "ENTER SESSION"; SES\$ INPUT " ENTER SCORE IN ENGLISH LANGUAGE"; ENG% INPUT "ENTER SCORE IN MATHEMATICS": MAT% INPUT " ENTER SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE"; CRS% INPUT "ENTER SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE"; IRS% INPUT " ENTER SCORE IN COMMERCE"; COMM% INPUT " ENTER SCORE IN FOOD AND NUTRITION"; FOOD% INPUT "ENTER SCORE IN MUSIC"; MUS% INPUT "ENTER SCORE IN ARABIC LANGUAGE": ARAB% INPUT " ENTER SCORE IN HISTORY"; HIST% INPUT "ENTER SCORE IN BIOLOGY"; BIO% INPUT "ENTER SCORE IN ACCOUNTS"; ACC% INPUT "ENTER SCORE IN ECONOMICS"; ECONS% INPUT " ENTER SCORE IN GOVERNMENT "; GOVT% INPUT "ENTER SCORE IN ENGLISH LITERATURE"; ENGLIT%

WRITE #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, CRS%, IRS%, COMM%, FOOD%, MUS%, ARAB%, HIST%, BIO%, ACC%, ECONS%, GOVT%, ENGLIT%

INPUT "ENTER MORE DATA"; ANS\$
LOOP WHILE UCASE\$(ANS\$) = "Y"

CLOSE#1

PRCOMMERCIAL: DO WHILE NOT EOF(I)

COMM%, FOOD%, MUS%, ARAB%, HIST%, BIO%, ACC%, ECONS%, GOVT%, ENGLIT% TT& == ENG% + MAT% + CRS% + IRS% + COMM% + FOOD% + MUS% + ARAB% + HIST% + BIO% + ACC% + ECONS% + GOVT% + ENGLIT% AVE! = TT&/9IF MAT% >= 50 AND ENG% >= 50 AND TT& >= 450 THEN RE\$ = "PASSED" ELSE RE\$ = "FAILED" **END IF** PRINT "STUDENT NAMES SURNAME INCLUSIVE", NAM\$ PRINT "STUDENT MATRIC NUMBER", MATNO\$ PRINT "STUDENT AGE ", AG\$ PRINT "STUDENT CLASS", CLA\$ PRINT "SESSION", SES\$ PRINT "SCORE IN ENGLISH LANGUAGE", ENG% PRINT "SCORE IN MATHEMATICS", MAT% PRINT " SCORE IN CHRISTIAN RELIGIOUS KNOWLEDGE", CRS% PRINT "SCORE IN ISLAMIC RELIGIOUS KNOWLEDGE", IRS% PRINT "SCORE IN COMMERCE", COMM% PRINT " SCORE IN FOOD AND NUTRITION", FOOD% PRINT " SCORE IN MUSIC ", MUS% PRINT "SCORE IN ARABIC LANGUAGE", ARAB% PRINT "SCORE IN HISTORY", HIST% PRINT "SCORE IN BIOLOGY", BIO% PRINT "SCORE IN ACCOUNTS". ACC% PRINT "SCORE IN ECONOMICS", ECONS% PRINT "SCORE IN GOVERNMENT", GOVT% PRINT " SCORE IN ENGLISH LITERATURE", ENGLIT% SLEEP LOOP CLOSE #1

INPUT #1, NAM\$, MATNO\$, AG\$, CLA\$, SES\$, ENG%, MAT%, CRS%, IRS%,

EX:

STOP

RETURN