KWARA STATE POLYTECHNIC, ILORIN

INSTITUTION OF INFORMATION COMMUNICATION AND TECHNOLOGY

STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME [SIWES]

HELD AT

SOFTCODTECH NG,

IBADAN POLYTECHNIC, OYO STATE

BY

OGUNJOBI TAOFEEK OWOYEMI

ND/23/COM/PT/0100

A SIWES REPORT SUBMITED TO THE POLYTECHNIC, KWARA

IN PARTIAL FUFILMENT OF THE REQUIREMENT FOR THE AWARD OF NATIONAL DIPLOMA [ND] IN THE DEPARTMENT OF COMPUTER SCIENCE

2023/2024

CERTIFICATION

This is to certify that **OGUNJOBI TAOFEEK OWOYEMI** with matriculation number **ND/23/COM/PT/100** undergoes his industrial training **SIWES** at **SOFTCDTECH NG, IBADAN POLYTECHNIC OYO STATE**.In partial fulfillment of the award of national diploma (ND) in computer science, kwara state polytechnic ilorin, undersigned by following people:

_____ _____

OLUFADI B.A **DATE**

SIWES SUPERVISOR

_____ _____

MR ABIODUN E.T **DATE**

SIWES DIRECTOR

_____ _____

MR OYEDEPO FEMI S.A **DATE**

HEAD OF DEPARTMENT

DEDICATION

This SIWES report is dedicated to GOD Almighty, Mr. & Mrs. Ogunjobi. for their spiritual and financial support during my SIWES program.

ACKNOWLEDGEMENT

My appreciation first goes to God almighty, the creator of Heaven and Earth for granting me the grace and privilege to be able to complete this SIWES program successfully and on schedule.

I am also grateful to my industrial based supervisors Mr. Alade Abolaji Yusuf. and my tutors, Mr. Gabriel, Mr.Jamiu, and Mr. Malik for their thorough supervision and useful advice which helped and also contributed to the success of the SIWES program. May the almighty God make their days on Earth longer to reap the fruit of their labour to the fullest in ALLAH'S name.

Also I cannot but acknowledge my germane H.O.D, MR OYEDEPO FEMI SAMSON and all the lecturers in the department.

Thanks and GOD bless you all.

TABLE OF CONTENT

CHAPTER THREE

CHAPTER FOUR

CHAPTER ONE

1.0 INTRODUCTION

This chapter gives a brief history of SIWES, its aims and objectives, as well as a short narrative on my application and posting. It also introduces intelligent solution providers (ISP) of Computer, where I had my SIWES training.

1.1 ABOUT STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME

The student work experience scheme (SIWES) is a worldwide program practiced in countries like Japan, Australia, USA, Europe, and in African countries too. It is popularly known as co-operative education and referred to as sandwich in Europe. It is a six (6) months students industrial work experience scheme (SIWES) taken in the third year of the degree program, where the students go to various establishments related to their course of study.

The program was initially introduced in Nigeria by the Industrial Training Fund (I.T.F.) which was established under Decree 47 of 1972 by the Supreme Military Council, headed by General Yakubu Gowon. The Decree was billed to take effect from 31st March, 1974 and had as its core objective, the gradual reduction of the percentage of foreign participation in most of Nigeria's economic activities, accompanied by a systematic cooperation of locally oriented skilled manpower into the vast economic sector.

One of the key functions of the ITF is to work as cooperative body with industry and commerce where students in institutions of higher learning can undertake mid-career work experience attachment in industries which are compatible with student's area of study. The students Industrial Work Experience Scheme (SIWES) is a skill Training program designed to expose and prepare students for the Industrial work situation which they are likely to meet after graduation. Participation in SIWES has become a necessary pre-condition for the award of diploma and degree certificate in specific disciplines in most institutions of higher learning in the country in accordance with the education policy of government.

1.2 BRIEF HISTORY OF SIWES

The word SIWES (Student Industrial Work Experience Scheme) was introduce by the federal government in the year 1973 to develop the technological, physical and social skill of our nation, through this, adequate and intelligent student are provide the department involved the actual challenge various discipline before they can be awarded as am National Diploma (ND) graduate.

1.3 AIMS AND OBJECTIVES OF SIWES

- Provide an avenue for students in institutions of higher learning to acquire industrial skills and experience in their approved course of study and also by interacting with people with more experience in the field under consideration.
- Prepare students for the industrial work situation which they are likely to meet after graduation.
- Expose students to work methods and techniques in handling equipment and machinery that are mostly not available in their various institutions.
- Provide students with an opportunity to apply their knowledge in real world situation thereby reducing the gap between theoretical knowledge and practical work.
- Enlist and strengthen employers' involvement in the entire educational process and prepare students for employment in Industry and Commerce

1.4 ROLES OF STUDENT

- Attend SIWES orientation programme before going on attachment.
- Comply with the establishment's rule and regulation.
- Arrange living accommodation during the period of attachment.
- Record all training activity done and other assignment in the log book.
- Complete SPEI from ITF, FORM 8 and get it endorsed by the employer for submission to the ITF.

1.5 OBJECTIVES OF THE REPORT

The objectives of the SIWES report are;

- To make through explanation of the work done during my four month industrial training.
- To fulfill the requirement for national diploma in computer science.
- To contribute to the body of knowledge and to enhance the understanding of the writer about a similar or same job.
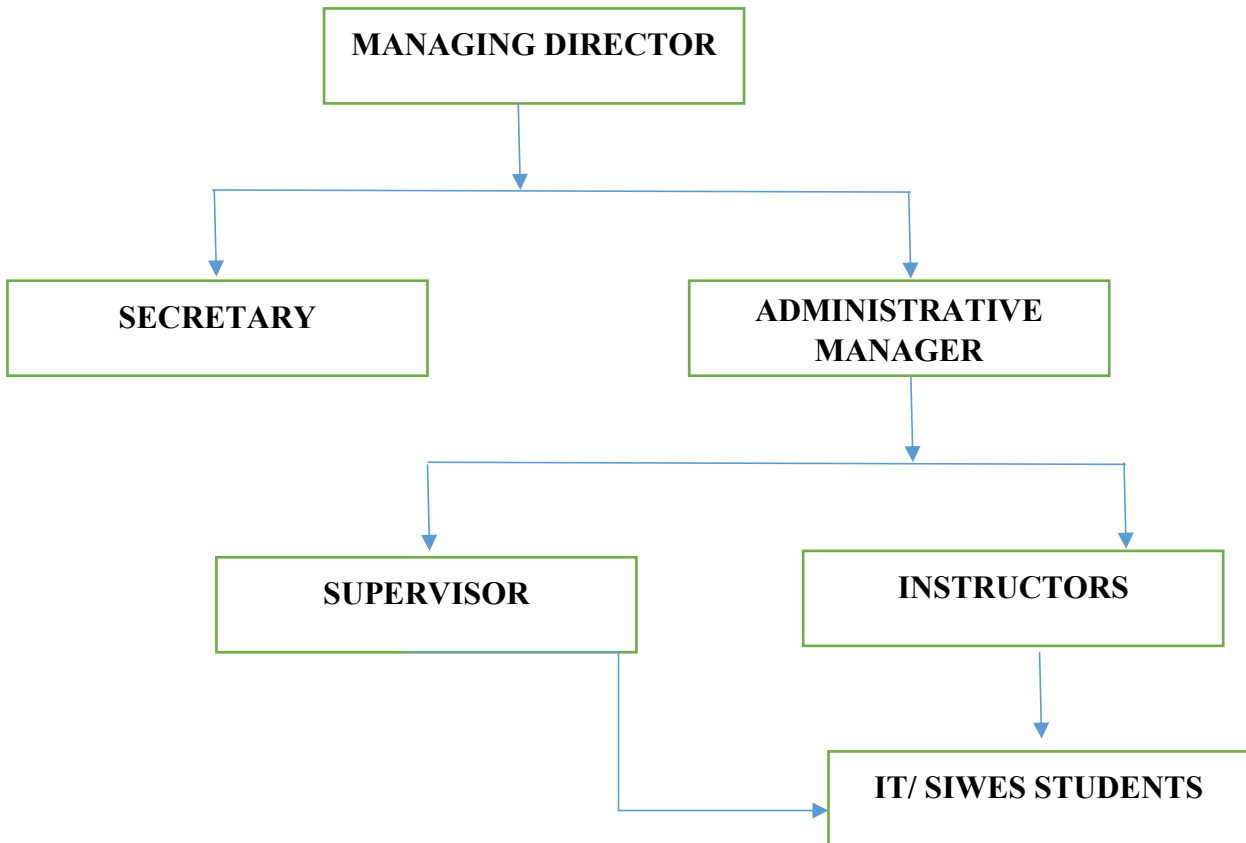
1.6   CORE VALUES

- Integrity
- Services
- Commitment
- Excellence
- Professionalism

1.7 THE LOGBOOK

The logbook issued to student on attachment by the institution was used to record all daily activities that took place during the period of attachment, and it was checked and endorse by the industry based/institution based supervisors and ITF during supervision.

CHAPTER TWO

2.1 ORGANIZATIONS CHART OF SOFTCODTECH NG, IBADAN OYO STATE

```
                    ┌──────────────────────┐
                    │  MANAGING DIRECTOR   │
                    └──────────────────────┘
                       │              │
         ┌─────────────┘              └──────────────┐
         ▼                                           ▼
┌──────────────────┐                    ┌──────────────────────┐
│    SECRETARY     │                    │    ADMINISTRATIVE    │
│                  │                    │       MANAGER        │
└──────────────────┘                    └──────────────────────┘
                                   │                    │
                        ┌──────────┘                    └──────────┐
                        ▼                                          ▼
               ┌──────────────────┐                   ┌──────────────────┐
               │   SUPERVISOR     │                   │    INSTRUCTORS   │
               └──────────────────┘                   └──────────────────┘
                        │                                        │
                        │                                        ▼
                        │                         ┌──────────────────────┐
                        └────────────────────────▶│  IT/ SIWES STUDENTS  │
                                                  └──────────────────────┘
```

2.2 BRIEF HISTORY OF SOFTCODTECH NG

Softcodtech is a forward-looking private organization established in the year 2020. It is founded and managed by Mr. Alade Abolaji.

It is a non-governmental organization in Oyo state. They operate ICT which is situated at Computer Science Building, The polytechnic, Ibadan. Oyo State. Their main Headquarters is situated at 7, Adesanya Street, Mafoluku Oshodi, Lagos State.

Softcodtech Ng is focused on developing digital software solutions that are needed for the 21st century. As an information and technology company, they build upcoming developers a way into the programming world.

This company is head by the director and administrative manager next to him followed by the supervisor and the instructors.

2.3 Vision of the Company

Bringing inspiration and innovation to every part of the world through the use of Technology.

2.4 Mission of the Company

The mission of Softcodtech Ng is dedication in solving clients' business challenges by providing services in customized software application and also a learning center for upcoming developers.

2.5 Company Area of Specialization

Softcodtech Area of specialization is categorizes into various sections;

1. Computer programming training
2. Enterprise Software
3. Website Development
4. Mobile Computing
5. IT Consulting / Professional Services

CHAPTER THREE

3.0 STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME

3.1 SOFTWARE DEVELOPMENT

Software is a series of program written in programming language to solve problem. Software development is the process of designing, creating, testing, and maintaining software systems to meet specific requirements and needs.

Key phases in software development:

- ➢ Planning the development process
- ➢ Analysis of the said plan
- ➢ Requirement analysis Design
- ➢ Development and implementation (Coding)
- ➢ Testing of Deployment and maintenance

Types of software

1. System software

2. Application software

System software is used to increase system performance.

The application software is used to solve problem generally. And during my SIWES placement, I worked with application software to solve problem using a programming language called C-sharp (C#).

C-sharp (C#) is a powerful multipurpose programming language that is used for the development of various software such as:
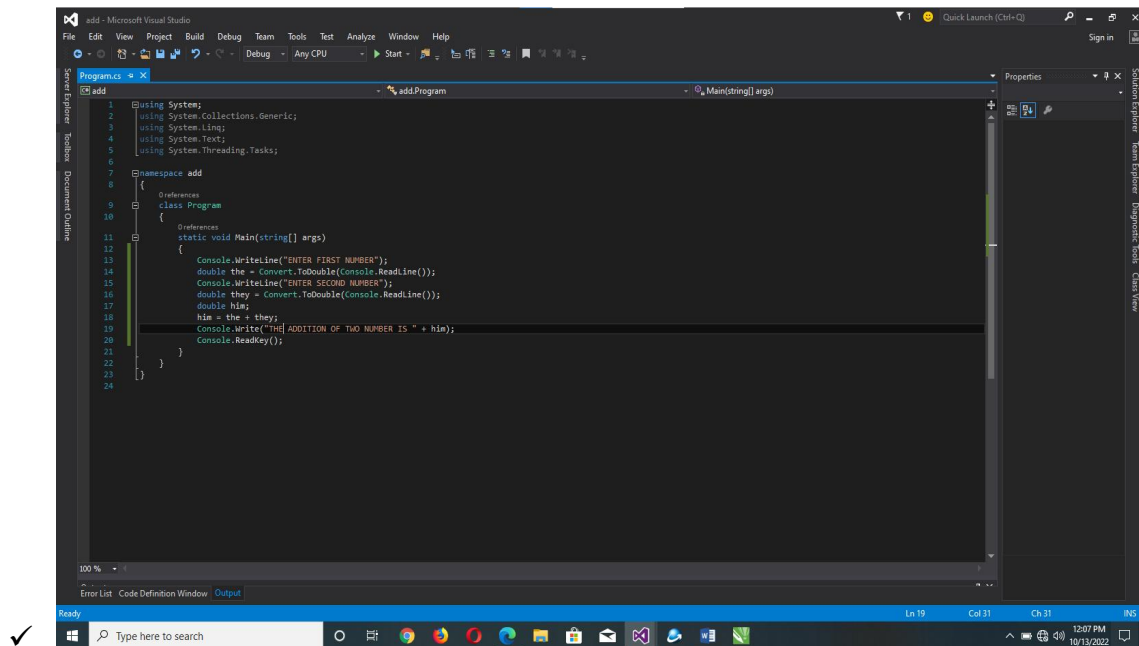
1. Console application

2. Windows form application

3.1.1 Console Applications

A console application, in the context of c#, is an application that takes input using "Console.ReadLine();" as the code to accept input from user and displays the output while using "Console.WriteLine();" as the code to display the output and lastly it also used "Console.ReadKey();" to hold the program from disappearing. The Net. Framework IDE (Integrated Development Environment) used to run C# program is called Visual Studio and it display all output with the help of command prompt.

The console application primarily is designed for the following reasons,

- ✓ To provide a simple environment to test and debug code, algorithms, and programming concepts without the complexity of graphical user interface (GUI).
- ✓ To allow users to interact with the program through text-based commands, providing a straightforward way to perform specific tasks.

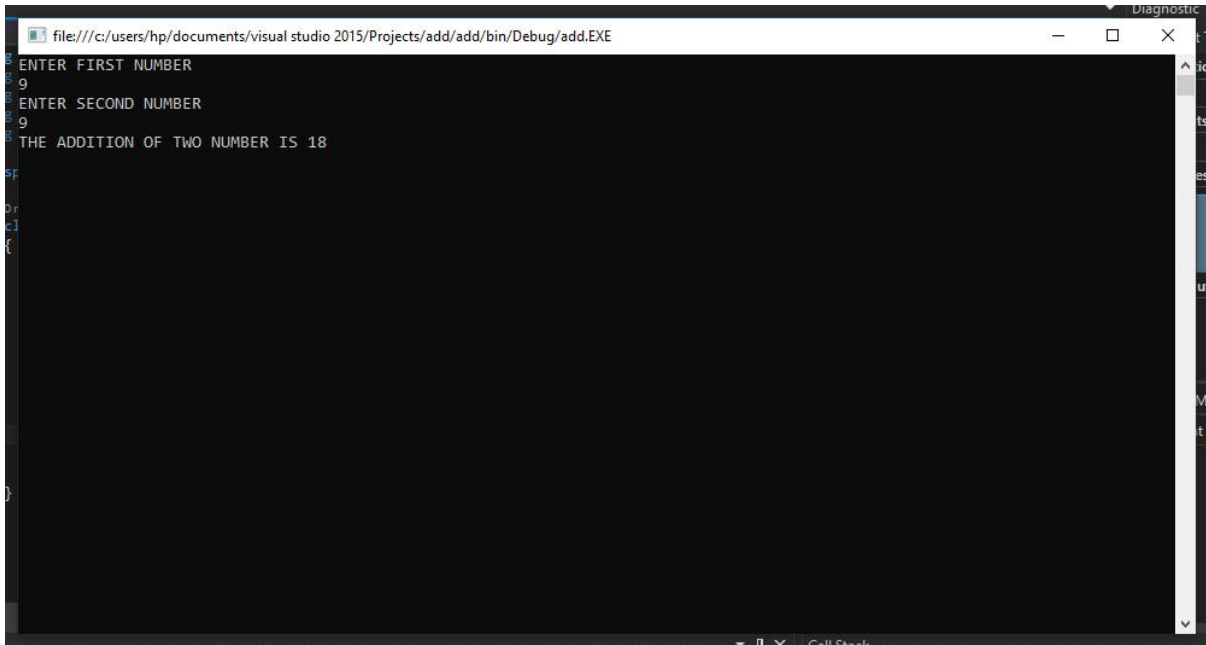✓ **FIG1. 3.1.2 THE CODE OF THE ADDITION OF ANY TWO NUMBERS IN CONSOLE APPLICATION**

FIG2. 3.1.1 THE OUTPUT OF THE ADDITION OF ANY TWO NUMBERS USING (COMMAND PROMPT (CMD)) IN CONSOLE APPLICATIONS

3.1.2 WINDOWS FORM APPLICATIONS

A Windows Forms application is a type of desktop application that runs on the Microsoft Windows operating system and it provides a graphical user interface (GI) to interact with users. Windows Forms is a GUI (Graphical User Interface) framework for building desktop applications in C#. it provides a set of classes and controls to create forms, buttons, text boxes, menus, and other UI elements.
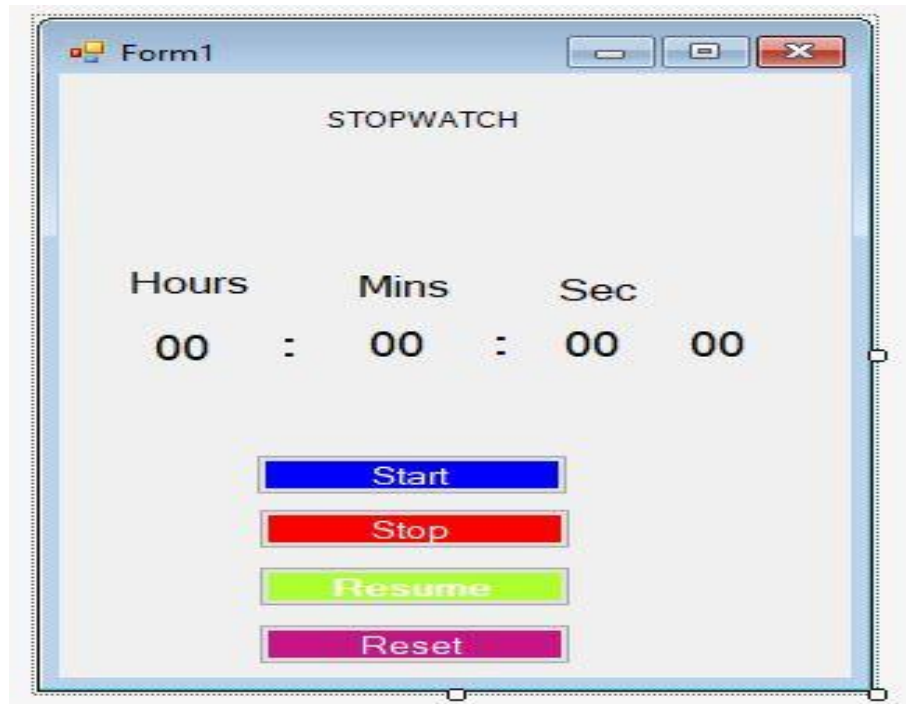
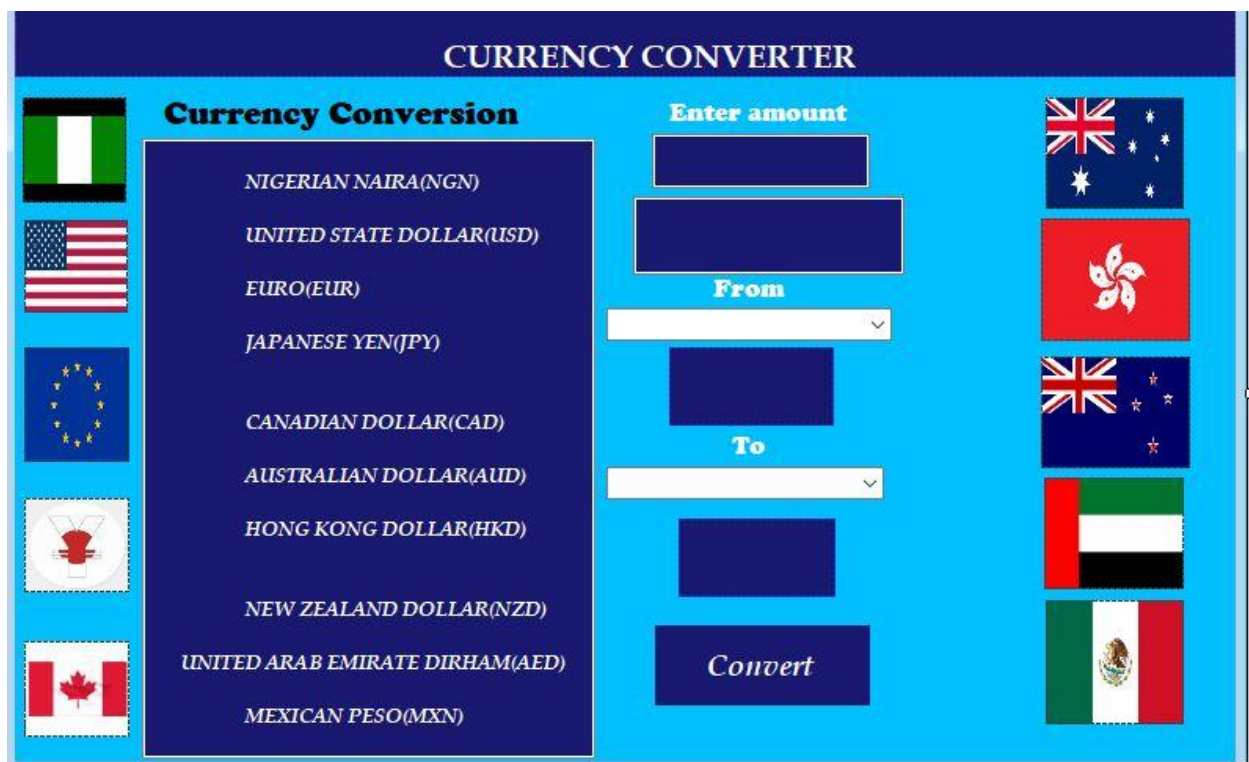**FIG 1. 3.1.3: IMAGE REPRESENTING THE DESIGN OF A WINDOW FORM APPLICATION (A STOPWATCH)**

FIG 2. 3.1.3: IMAGE REPRESENTING THE DESIGN OF A WINDOW FORM APPLICATION (CURRENCY CONVERSION)

<div align="center">**CHAPTER FOUR**</div>

4.0   RECOMMENDATION AND CONCLUSION

4.1   CONCLUSION

In conclusion as an individual, who just finish a brain and faith challenging four (4) month SIWES program in a land where I have no family but had to stay strong, focus and consistent just to have an experience. Precisely an experience that can be used for a lifetime surviving means. Apparently saying that challenges are meant to be face when doing something of success. Yes, it was a challenging, educating, interesting and instructing four (4) month SIWES program at SOFTCODTECH.NG. Before this training I was oblivious about the importance which my course of study constitutes to human society. Through this training I was able to gain new insight and more comprehensive understanding about the real industry working condition and practice in my course area. It has provided me the opportunities to develop and improve my soft and functional skills. All this valuable experience and knowledge that I have gained were not only acquired through direct involvement in task given but also through other aspect of the training such as work observation, interaction with colleagues, superior, and other people related to the field. From what I have undergone, it obviously came to my understanding that SIWES program is not just an ordinary program which student will take nonchalantly by not participating, thinking it a waste of time but eventually the objective was for you to use that precious time to gain a lifetime experience. This program has also prepared student to face the real working life. As a result of the program, Now I think there is hope for me in the tech world.

4.2   RECOMMENDATION:

1.   Student should be paid monthly in their place of attachment by the SIWES body.

2.   Supervisor should always visit student monthly in their various places of attachment.

3.   School should always rehearse with industries, firm and companies where the student is doing his/her industrial training to check and improve their facilities.

4   Despite the challenges encountered I still wish to recommend my place of attachment (SOFTCODTECH.NG) for schools and student who are yet to undergo their SIWES program.