**LAB 1: BY JOSEPH NKWATE NDOMU**

1. “Software engineering is part of system Engineering process”

Do you agree with the above statement?

Justify your answer.

***ANSWER***

I AGREE:

The system engineering process involves the top-down development of a system’s functional and physical requirements.

This process is intimately intertwined with Software engineering, which is the process of analyzing user and designing, constructing and testing end user applications.

1. What is “software crisis”?

***ANSWER***

Software crisis is a term use in computer science for the difficulty in writing useful and efficient computer programs in the required time period.

The term software crisis was used to describe the impact of the rapidly increase in computer power and the complexity of the problems to be tackled.so the complexity, expectations, and change hindered the software development process.

Some reasons for the crisis are: -

The problem of scale, software is expensive, software is late, software is unreliable.

1. What are the professional responsibilities of a software Engineer?

***ANSWER***

A software engineer’s job scope is often determined by a project, product, or engineering manager, however a software engineer is responsible for  ***Research and analysis, System design, Implementation*** and supporting software solutions to various problems. How they actually execute on those responsibilities is heavily influenced by a myriad of outside factors, such as how far along a product is in development, how large their team is, and the programmatic infrastructures that the software engineer is proficient in.

1. “Component-based software Engineering allows faster delivery”

State whether this statement is true or false. Justify your answer.

***ANSWER***

TRUE

This is due to the fact that using previously tested components produce more reliable system at a faster rate.

With component-based design, development becomes an act of composition, rather than constantly reinventing the wheel. Using shared components as building blocks frees us up to focus on what matters, without getting bogged down in implementation details.