***MODULE: 1 (SDLC)***

***1.What is software?***

Ans= software is a set of instruction, data or programs used to operate computers and execute specific tasks

***2 .What is software engineering?***

Ans= software engineering is a detailed study of engineering to the design,development and maintenance of software.

***3.Explain types of software.***

Ans= application software :- The most common type of software, application software is a computer software package that performs a specific function for a user, or in some cases, for another application.

System software:- These software programs are designed to run a computer's application programs and hardware.

Driver software:- Also known as device drivers, this software is often considered a type of system software. - Device drivers control the devices and peripherals connected to a computer, enabling them to perform their specific tasks.

Middleware:- The term middleware describes software that mediates between application and system software or between two different kinds of application software. For example, middleware enables Microsoft Windows to talk to Excel and Word.

Programming software:- Computer programmers use programming software to write code. Programming software and programming tools enable developers to develop, write, test and debug other software programs.

***4. What is SDLC? Explain each phase of SDLC***

Ans:- The Software Development Life Cycle (SDLC) refers to a methodology with clearly defined processes for creating high-quality software in detail.

1. Planning

The planning stage is exactly what it sounds like: the phase in which developers will plan for the upcoming project.

1. Analysis

The analysis stage includes gathering all the specific details required for a new system as well as determining the first ideas for prototypes.

This includes all the specifications for software, hardware, and network requirements for the system they plan to build.

1. Designing

The design stage is a necessary precursor to the main developer stage.

Developers will first outline the details for the overall application, alongside specific aspects,

User interfaces

System interfaces

Network and network requirements

Databases

1. Development

The development stage is the part where developers actually write code and build the application according to the earlier design documents and outlined specifications.

1. Testing

Now it must be tested to make sure that there aren’t any bugs and that the end-user experience will not negatively be affected at any point.

1. Maintenance

The SDLC doesn’t end when software reaches the market. Developers must now move into a maintenance mode and begin practicing any activities required to handle issues reported by end-users.

***5. What is DFD? Create a DFD diagram on Flipkart***

Ans:***-*** A data flow diagram (DFD) represents graphically a flow of

Data within a system. It illustrates how data is input and output

From the system.

***6. What is Flow chart? Create a flowchart to make addition of two numbers***

Ans:- A flowchart is a diagrammatic representation of Algorithm. A flowchart can be helpful for both writing program and explaining the program to others.

***7. What is Use case Diagram? Create a use-case on bill payment on paytm.***

Ans:- Use-case diagrams describe the high – level functions and scope of a system. These diagrams also identify the interactions between the system and actor