

MODULE-1-SE

1.What is software? what is software engineering?

Software is a set of instruction, data or program used to operate computer and execute specific task.

Software engineering:

Software engineering is the branch of computer science that deal with design development testing maintenance of software application.

2.Explain types of software?

Mainly 3 Types of software

1.System software

2.Application software

3.Utility software

1.System software: -Type of software that designed for providing a platform to other software.

Example of system software include operating system like macOS, Linux, android.

2.Application software: -Application software that fulfil specific needs or perform task.

Example of application software that is used on a personal computer or laptop.

3.Utility software: -It helps to manage, maintain & control computer resource.

Example of utility programs are antivirus software, backup software & disk tools.

3.What is SDLC? explain each phase in SDLC

The software development life cycle is cost effective & time efficient process that development teams that used to design & build high quality software.

Planning: -The phase SDLC project planning stage where you are gathering business requirement from your client. Evaluate the feasibility of creating the project.

Analysis: -Information gathered during the planning & analysis phase into the clear requirement for the development team.

Design: -The design phase will include the development of a prototype. software design document that includes system design, programming language.

Coding/Implementation: -Development team member divides the project into software modules & turn the software requirement into code that make the product.

Testing: -The process of executing a program or part of a program with the intention of finding error.

1. Manual Testing: -It is perform the tests step by step without help of tool.

2. Automation Testing: -Tests are execute automatically using automation tools & frameworks

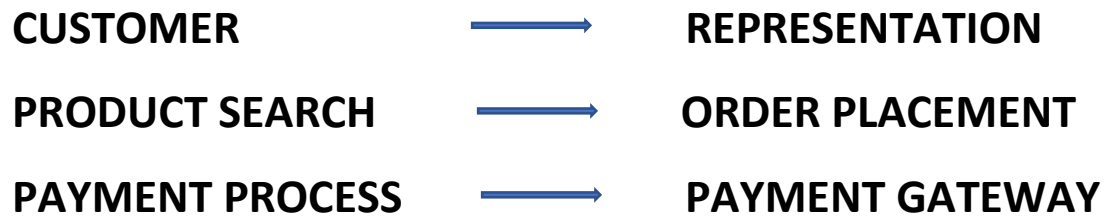
Deployment: -This phase is the final step in the software development life cycle & delivers the final product to the customer in a live production environment.

Maintenance: -Occurs after the product is in full operation. It can include software upgrades, repair & fixes of the software if it breaks.

4.What is DFD? Create DFD diagram on flipkart?

A data flow diagram is graphical or visual representation using a standardized set of symbols.

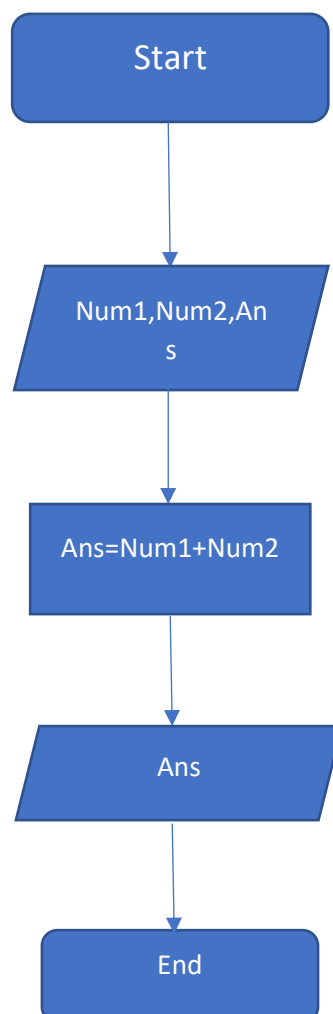
DFD diagram on flipkart: -



5.What is flow chart? Create a flow chart to make addition of two numbers?

A flow chart is a picture of the separate steps of a process in sequential order.

Flow chart Addition of two number:










6.What is usecase diagram? Create a usecase on bill payment on Paytm?

Describe the high-level function & scope of the system. These diagrams also identify the interactions between the system & its user.

Use case on bill payment on Paytm:

USER: -

-  **REGISTRATION**
-  **SELECT BILL TYPE**
-  **BILL DETAILS**
-  **PAYMENT METHOD**
-  **PAYMENT GATEWAY**
-  **PAYMENT PROCESS**
-  **PAYMENT CONFIRMATION**

