

MODULE-1

1.What is software ? What is software engineering ?

Software is a set of instructions that a computer, web-based application, other device function. It's of hardware, refers to the physical parts of a computer.

Software engineering :

Software engineering is the discipline of designing, developing, testing, and maintaining software systems.

2.Explain types of software.

There are Mainly 3 types of software.

(I).System Software:-

System software :- System software is a set of computer programs manages and operates a computer's hardware and application programs.

Ex – Operating systems Like MacOS, Linux, Android , Windows etc.

(II). Application Software: -

Application software is a program or collection of programs that perform specific tasks for a user, such as processing data, word processing, or web browsing.

Ex – Google chrome, Safari, Firefox, Microsoft Edge etc.

(III).Utility Software:-

Utility software helps manage and maintain computer hardware and software. Utility software is a program or tool that performs specific tasks to enhance productivity, efficiency, functionality, or maintenance of a computer system.

Ex- Anivirus Software , Backup Software etc.

3. What is SDLC? Explain each phase of SDLC?

Is process used by Software development organizations to plan, Analysis, Design , Coding, Testing, Deployment , maintenance etc.

Planning :-

Planning is developing strategies, and outlining tasks and schedules to achieve those goals.. Planning be applied to various contexts, personal life, project management, business strategy, or software development.

Analysis:-

The second step of SDLC is maximum information from the client requirements for the product. The development team will requirements keeping the design and code of the software in mind.

Design: -

The design will include the development of a prototype.It is with finding the tecnical solutions, developing modules and logic development for coding.

Coding/Implementation: -

Development team member divides the project into software modules & turn the software requirement into code that make the project.

Testing:-

Testing is use to check error in program. The testing process can also help out major user experience issues and security issues.

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

2.Automation Testing:- Tests are execute automatically using Frameworks.

Deployment: -

In this phase your final product is delivered to your user. automate this process and schedule your deployment depending on the type.

Maintenance: -

The maintenance phase is the final stage of the SDLC It can include software upgrades, repair & fixes of the software if it breaks.

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

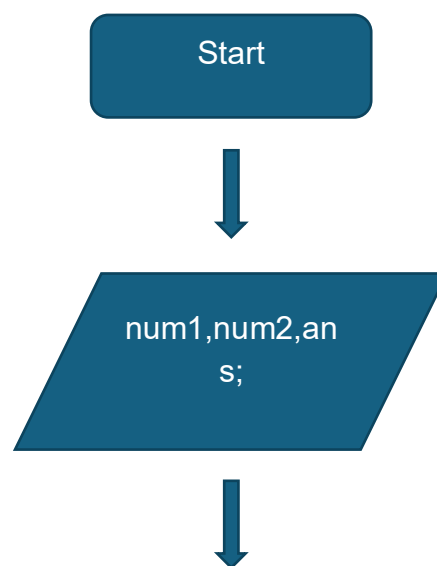
A Data flow diagram is a graphical representation of how data flows within a system. It the movement of data between external entities, processes, and data stores within a system.

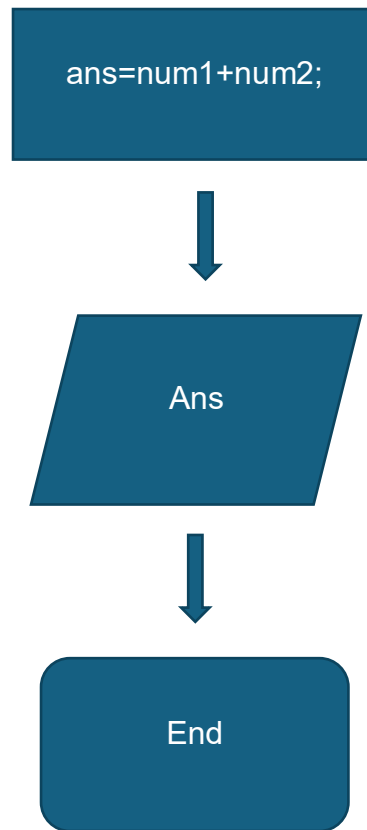
- **Customers -----> A items to purchase**
- **Identify item -----> A items to prices**
- **Cost of order -----> A amount to be paid**
- **Payment process -----> A payment Gateway**

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

Flow chart is a picture of the separate steps of a process in sequential Order.

Flow chart Addition of two number:





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

A use case diagram is a visual representation of the interactions between users and a system, depicting the various ways the users can use the system.

