MODULE-1

1. What is software? What is software engineering?

programs and applications that tell the hardware what to do. components of a computer system, software is intangible and consists of the computers and perform specific tasks. Unlike hardware, which is the physical Software set of instructions, data, or programs used to

<u>Software engineering:</u>

time high-quality software that is functional, cost-effective, and maintainable over maintaining Software engineering is the discipline of designing, developing, testing, and software systems. software development, aiming to produce

2.Explain types of software

There are Mainly 3 types of software

(I).System Software:-

System software is a type of computer software designed to manage or platform for application software to operate. control the hardware components of a computer, providing an environment and

Ex - Operating systems Like MacOs, Linux, Android, Windows etc

(II).Application Software:-

both the Internet Protocol Suite (TCP/IP) and the OSI model. communications network. An application layer abstraction is communication An application layer is an abstraction layer that protocols and interface methods used by specifies specified in hosts in

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

(III).Utility Software:-

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

Ex- Anivirus Software, Backup Software etc

3. What is SDLC? Explain each phase of SDLC

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

Planning:

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

Analisys:-

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

Design:-

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

Coding/Implementation: -

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

Testing:

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

- 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: -

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

Maintenance: -

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

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

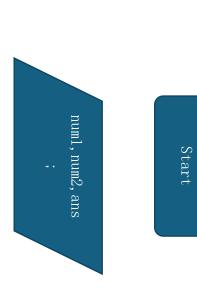
data stores within a system. a system. It the movement of data between external entities, processes, and A Data flow diagram is a graphical representation of how data flows within

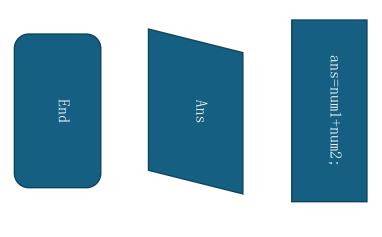
Customerà Items to purchose
dentify itemà Items to Prices
ost of Orderà Amount to be Paid
avment processà Pavment Getwav

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

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

Flow chart Addition of two number:





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

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

-----> REGISTRATION
-----> SELECT BILL TYPE
-----> BILL DETAILS
-----> PAYMENT METHOD
-----> PAYMENT GETWAY
----> PAYMENT CONFIRMATION