

Que 1. What is software? What is software engineering?

Ans. **Software** is that part of a computer, software is a computer programme you can load. Your software, instructions that tell a computer what to do. Software comprises the entire set of programme, procedures, and routine associated with the operating of a computer system.

Software Engineering is the process of design, development, testing, and maintenance of software applications. It is a systematic and disciplined approach to software development that aims to create high quality, reliable and maintainable software.

Que 2. Explain types of software?

Ans = there are two types of software application software and system software.

Application software, software designed to handle specific tasks for users. Such software directs the computer to execute commands given by the user and may be said to include any programme that processes data for a user.

System software, is a type of computer programme that is designed to run a computer's hardware and application programme.

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

Ans = **SDLC definition**, the software development life cycle. SDLC it is a series of steps that provides a well defined model of develop and manage the life cycles of low-cost, high-quality, in the shortest possible production time.

The phases of SDLC

1. **PLANNING**, is one of the phases of SDLC. Define project scope, goals, And requirements.
2. **ANALYSIS**, is phases Asses technical, economic, and operating feasibility.
3. **DESIGN**, Design phases of develop architectures, data structures, and Specification.
4. **IMPLEMENTATION**, is to write code, configure hardware, and build the system.
5. **TESTING & INTIGATION**, Verify and validate the system functionality and Performance, and install in the system live environment.
6. **MAINTENANCE**, these phases provide ongoing updates, fixes and user help support.

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

Ans = **DFD full form** = Data flow diagraame.

In DFD it will show, It shows how data moves through a system from start to finish.

The working process of a website, like how to buy , create, delete, payment in website.

Each work is having a step – by – step .

Example of flipkart: Flipkart

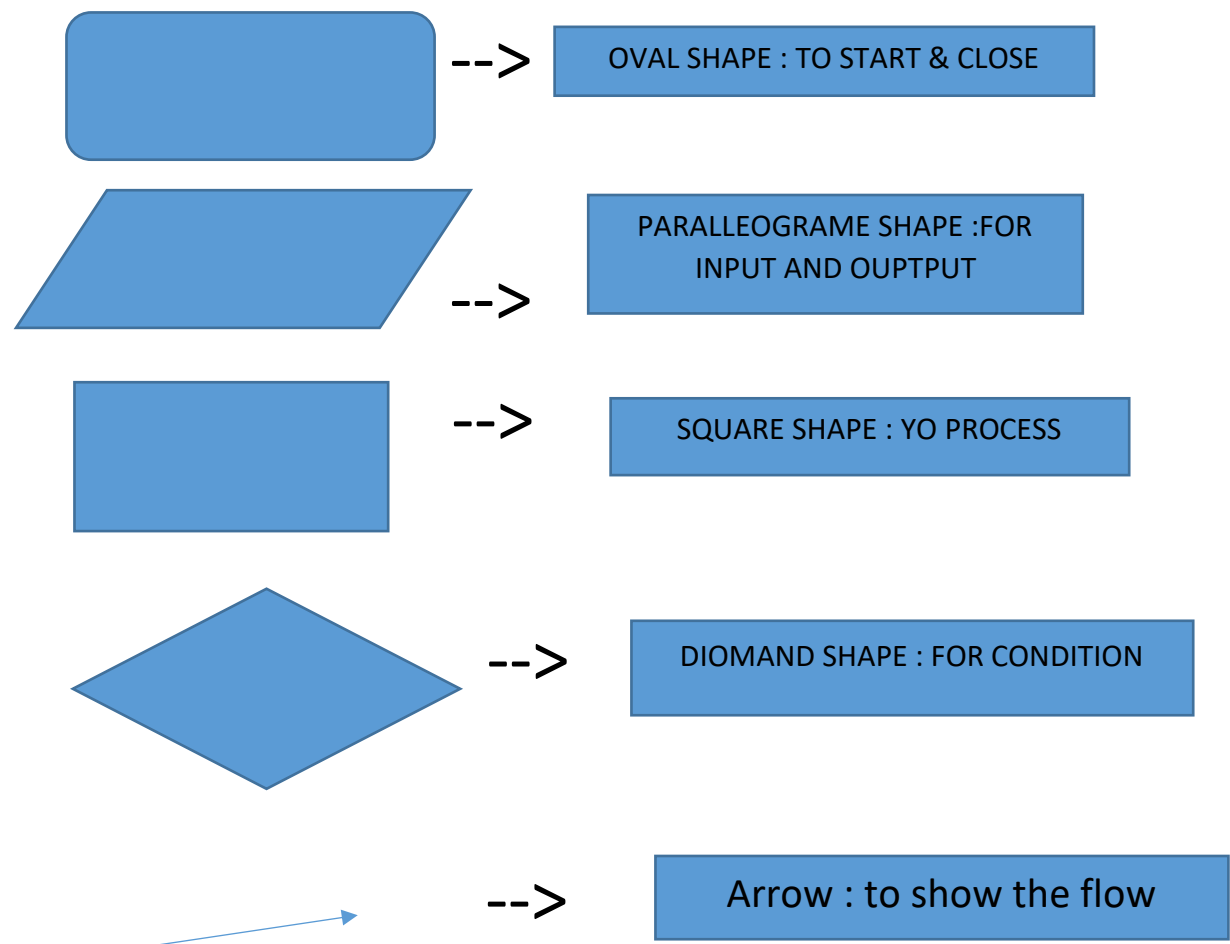
DFD:- Customer -----> Registration/Login -----

----- Product search -----> Order
Placement ----- Payment
process <----- Payment Gateway

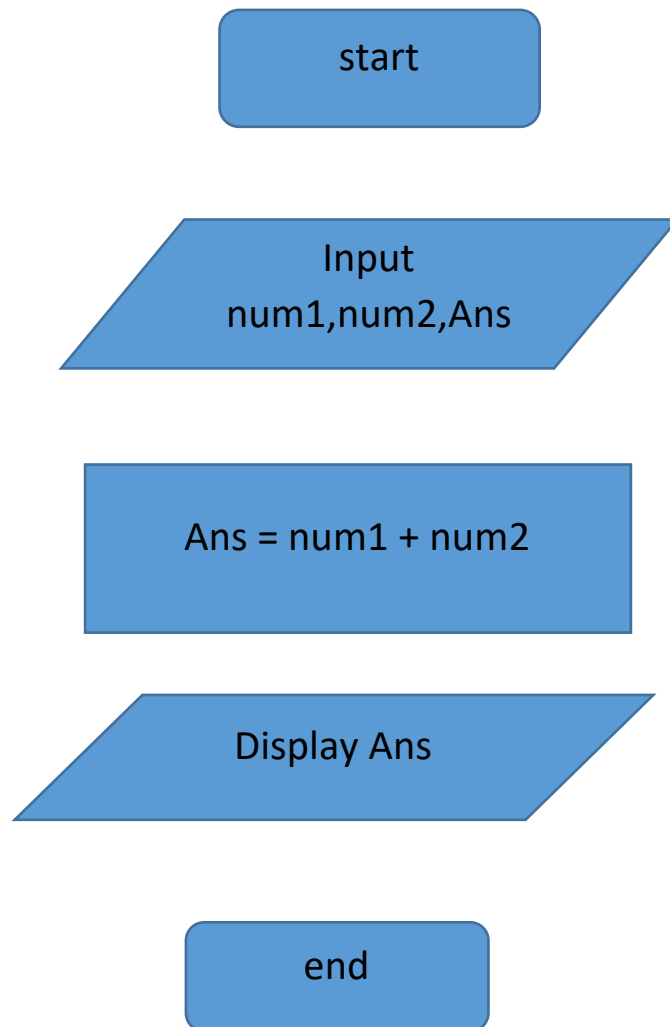
Que.5. What is Flow chart? Create a flowchart to make addition of two numbers ?

Answer = **Flow chart** : Flow chart is a blue print of any software. flow chart helps to see what is work and how the software work, Flow chart make the visualization of software easy to understand.

Flow chart :-



Flow chart to addition of two numbers :-



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

Ans = Use Case Diagram is a facility providing to a user.

Actors : user who interact with the system.

Usecase : Services Provided by the System.

Boundry : Scope of the system Relations.

Relation between Entities and User or them.

Use-case for bill payment on Paytm :-

Registration -----→ Login-----
-----→ Select bill type-----→ Enter bill details-----
-----→ Payment Gateway -----→ Payment processing-----
-----→ Payment Confirmation.