

## MODULE:1[SDLC]

### Q1. What is software? & What is software engineering?

ANS: Software is a set of computer programs and associated documentation and data.

Software engineering is the process of developing, testing and deploying computer applications to solve real-world problems by adhering to a set of engineering principles and best practices.

### Q2. Explain types of software?

ANS: main two types of software: 1. APPLICATION SOFTWARE

2. SYSTEM SOFTWARE

1. An application is software that fulfills a specific need or performs tasks.

2. System software is designed to run a computer's hardware and provides a platform for applications to run on top of. /EX:- operating systems..  
linux/window...

&

3. **Driver software:** Also known as device drivers, this software is often considered a type of system software. /EX:- usb driver....

4. **Middleware.** The term *middleware* describes software that mediates between application and system software or between two different kinds of application software. /EX:- mx player, vlc ....

5. **Programming software.** Computer programmers use programming software to write code. /EX:- turbo c, visual studio, devc++....

### Q3. What is SDLC? Explain each phase of SDLC?

ANS: SDLC :-software development life cycle

\_An SDLC (software development life cycle) is a big-picture breakdown of all the steps involved in software creation (planning, coding, testing, deploying, etc.

The character and the exact number of phases in an SDLC vary between businesses and projects. The most common models are variations on the following steps:

- Requirement analysis.
- In-depth planning.
- Product design.
- Coding.
- Testing.
- Deployment.
- Post-production maintenance.

## Stages in an SDLC (Software Development Life Cycle)



### Q4.What is DFD? Create a DFD diagram on Flipkart

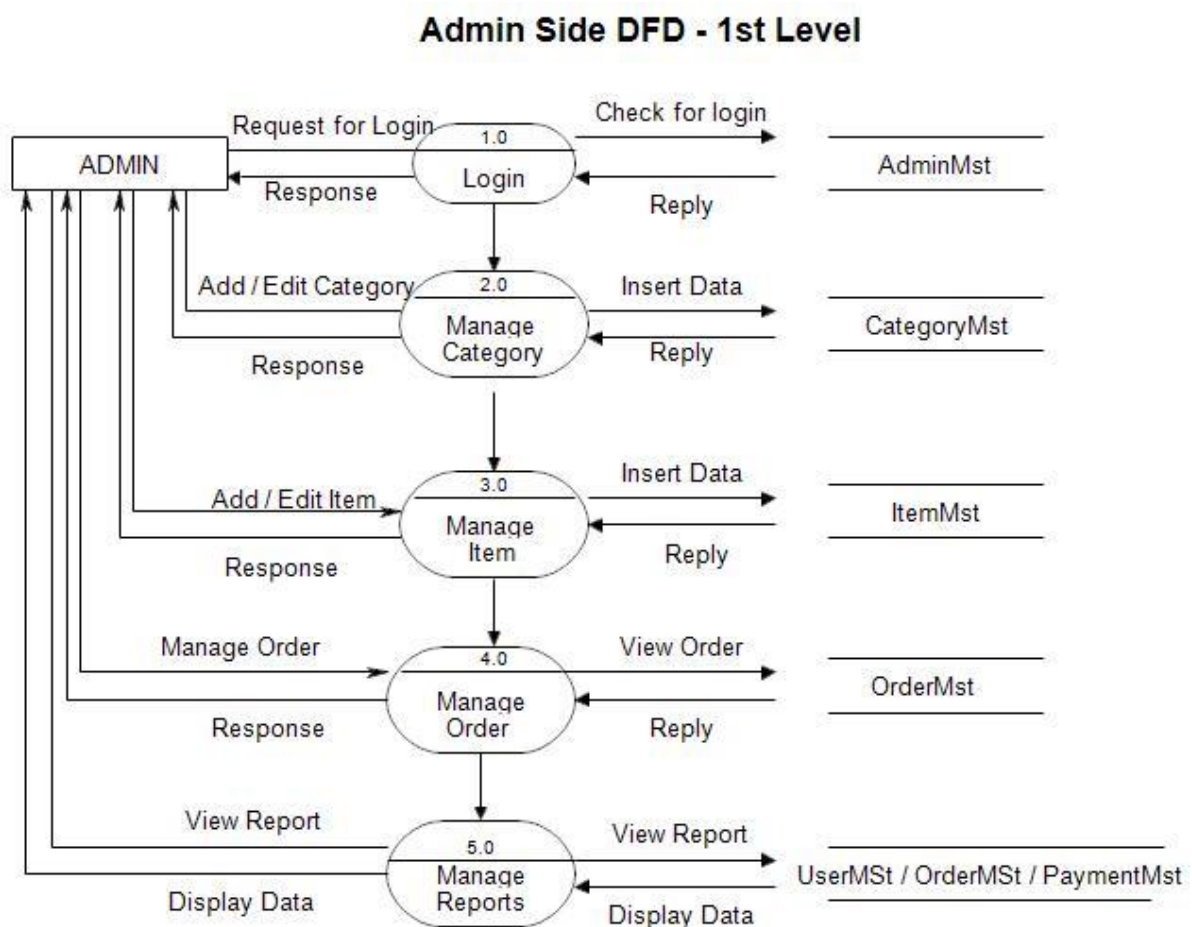
ANS:-A data flow diagram (DFD) maps out the flow of information for any process or system.

Dfd:dfd stands “data flow diagram” it is also known as “bubble chart”.

A data flow diagram (DFD) is a graphical or visual representation using a standardized set of symbols and notations to describe a business's operations through data movement.

By using DFD we can easily understand the overall functionality of the system because the diagram represents the incoming data flow outgoing data flow and stores data in a graphical.

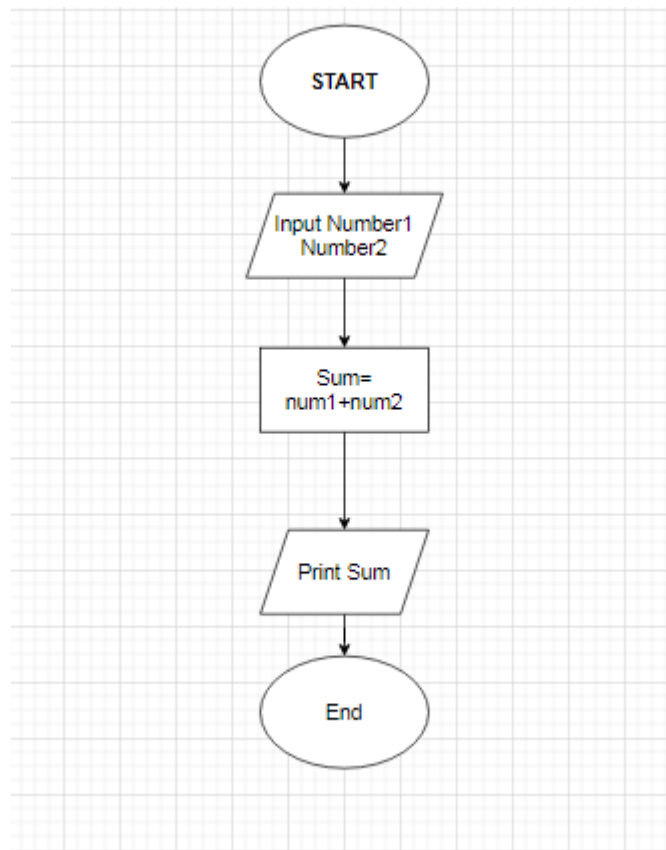
It describes how data is processed in a system in terms of input and output .



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

A flow chart is a picture of the separate steps of a process in sequential order. It is a generic tool that can be adapted for a wide variety of purpose and can be used to describe and various process,such as manufacturing process an administrative or service process,or a project plan.

This is flow chart of two number addition...



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

ANS:- A Use case is a written of how user will perform tasks on your website.it outlines,from auser's point of view ,a system's behavior as it respond to a equest. Each use case is represented as a sequanace of simple steps beginning with a user's goal and ending whwn that goal is fullfiled.

