1.What is software? What is software engineering?

→ Software:

→ Software is used to control a computer.

→ different types of software that can run on a computer: system software, utility software, and application software.

→ Software engineering:

→ Software engineering is the branch of computer science that deals with the design, development, testing, and maintenance of software applications.

2. Explain types of software.

→ 5 types of software

→ 1.Application Software

→ 2.System Software

→ 3.Drive Software

→ 4.Middleware

→ 5.Programming Software

→ 1.Application Software:

→ The most common type of software.

→ Application software is a computer software package that perform a specific function for a user or in some cash for another application

→ Example: Microsoft office, Powerpoint, etc..

→ 2.System Software:

→ System software programs are designed to run computer's application program and hardware.

→ Example: notepad, calculator, etc..

→ 3.Drive software:

→ Drive software is also known as device drives.

→ It is perform specific task.
→ Example: Audio drive, Video drive.
→ 4.Middleware;
→ Middleware is software that lies between operating system and the application running on it.
→ Example: IOS, Database Middleware.
→ 5.Programming software:
→ Computer programmers use to programming software to create a code.
→ Example: Tarbo c , sublime, etc...

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

→ SDLC stand for Software Devlopment Life Cycle.
→ It is refers to methodology with clearly defined processes for creating high quality software
→ Phase of SDLC.
→ 1.Plannig
→ 2.Analysis
→ 3.Design
→ 4.Implemtation
→ 5.Testing
→ 6.Maintanance

→ 1.Planning:
→ This phase is the most fundamental in the **SDLC process**
→ This is the initial phase where project goals, scope, and feasibility are determined.
→ 2.Analysis:

→ Business requirements are compiled and analyzed by a business analyst, domain expert, and project manager.

→ 3.Design:

→ The system architecture is designed based on the requirements.

→ This includes deciding on system components, data flows, databases, and user interfaces.

→ 4.Implementaion:

→ Convert the system design into actual code by developers.

→ 5.Testing:

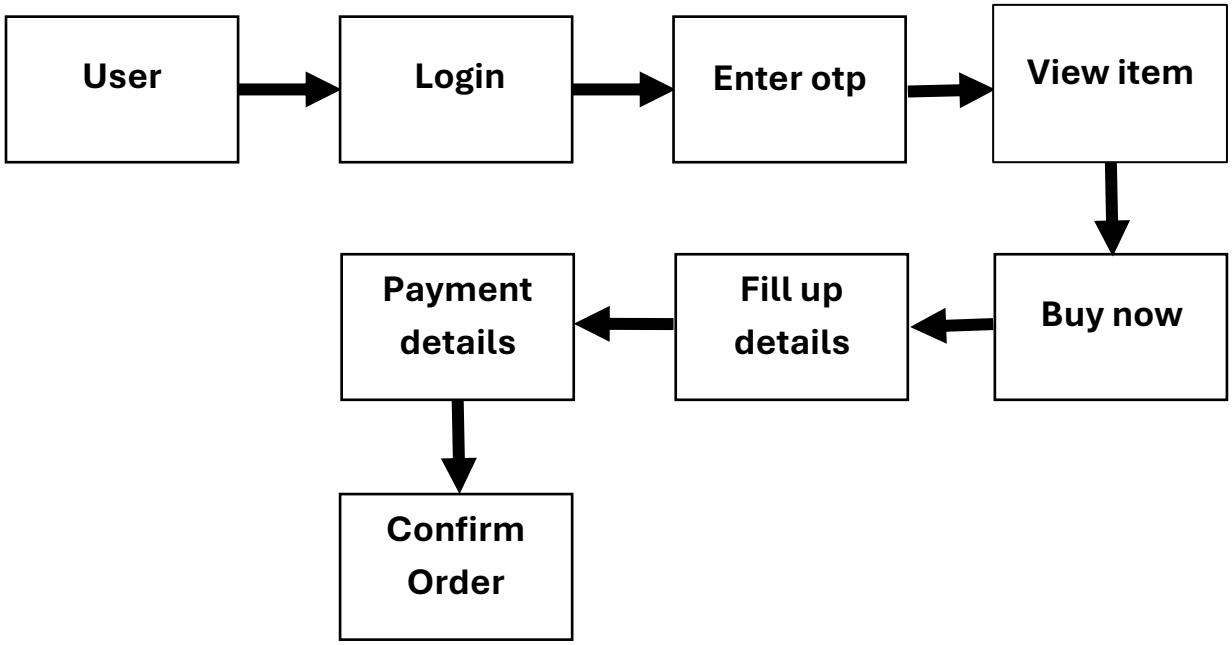
→ Identify and fix defects in the software to ensure it meets the quality standards and user requirements.

→ 6.Maintanance:

→ In a post-production, live software environment, the system is in maintenance mode.

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

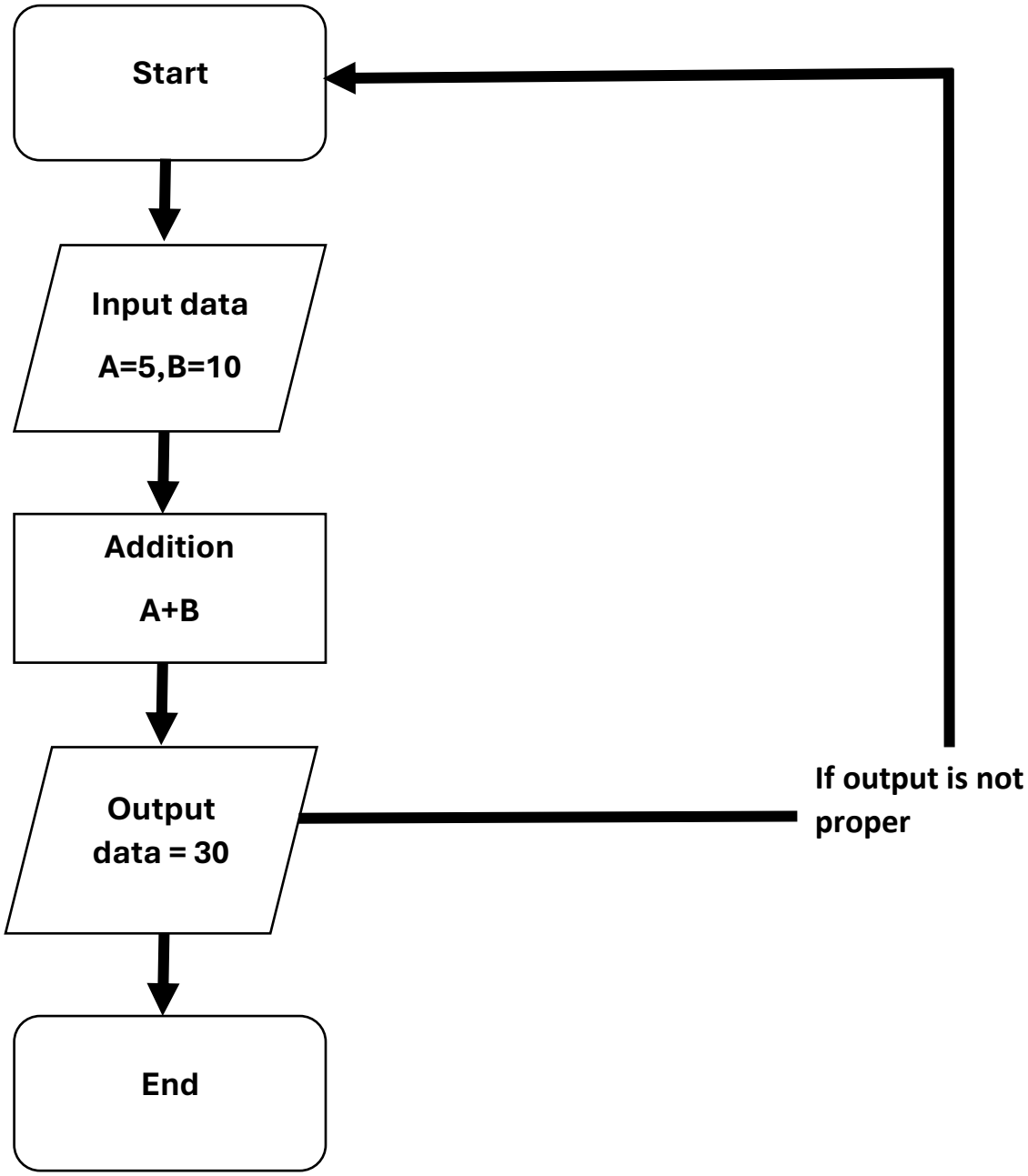
→ DFD stands for Data Flow Diagram.



→ DFD is a diagram being used frequently in software design

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

→ A flowchart is a diagram that illustrates the steps, sequences, and decisions of a process or workflow.



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

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