

SOFTWARE ENGINEERING ASSIGNMENT

MODULE – 1

SE – OVERVIEW OF IT

1. What is software? What is software engineering?

- Software is a language of computer. It is a collection of computer programs and data that provide the instructions for telling a computer what to do and how to do.

Software engineering is the art of developing quality software on time and within budget.

2. Explain types of software?

- Procedure

Example : C

Object oriented

Example : C++

Logical

Example : prolog

3. What is SDLC? Explain each phase of SDLC

- The software developing process (SDLC) a step by step process that helps development teams efficiently build the highest quality at the lowest cost. Teams follow SDLC to help them requirement gathering, analysis, design, deploy, test and maintain the software.

Phases of SDLC :

1. Requirement gathering : Establish customer needs.
2. Analysis : Model and specify the requirements.
3. Design : Model and specify a solution.
4. Implementation : construct a solution in software.
5. Testing : validate the solutions against requirements.
6. Maintenance : repair defects and adapt the solution to the new requirements.

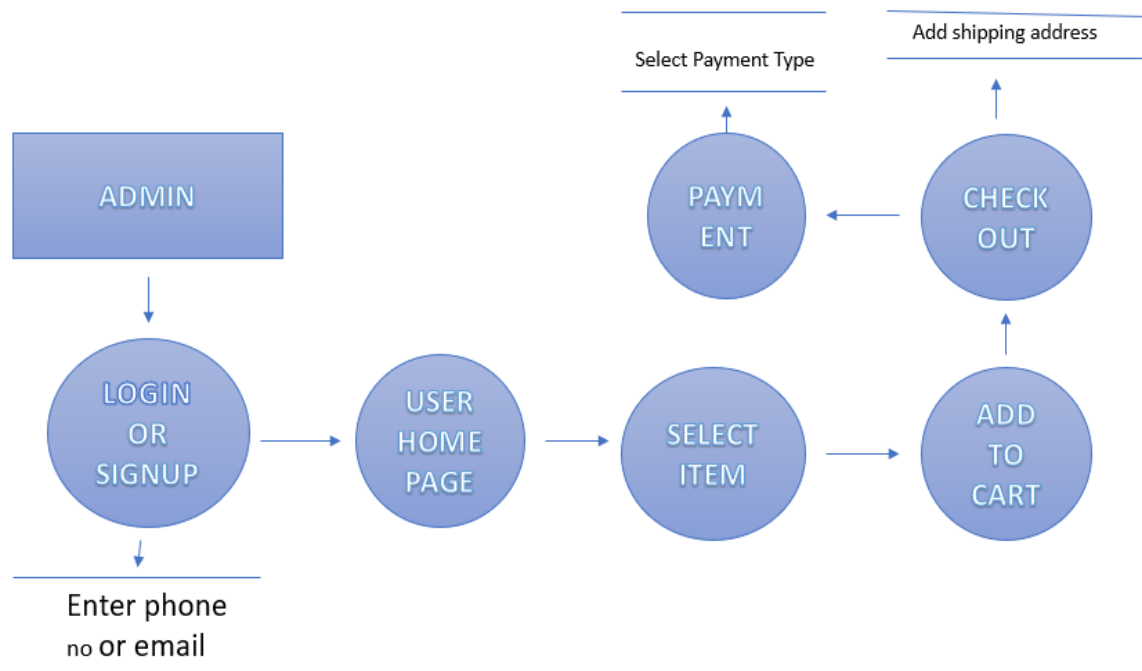


4. What Is DFD? Create a DFD diagram of Flipkart.

➤ A Data flow diagram (DFD) is a traditional way to visualize the information flows within a system.

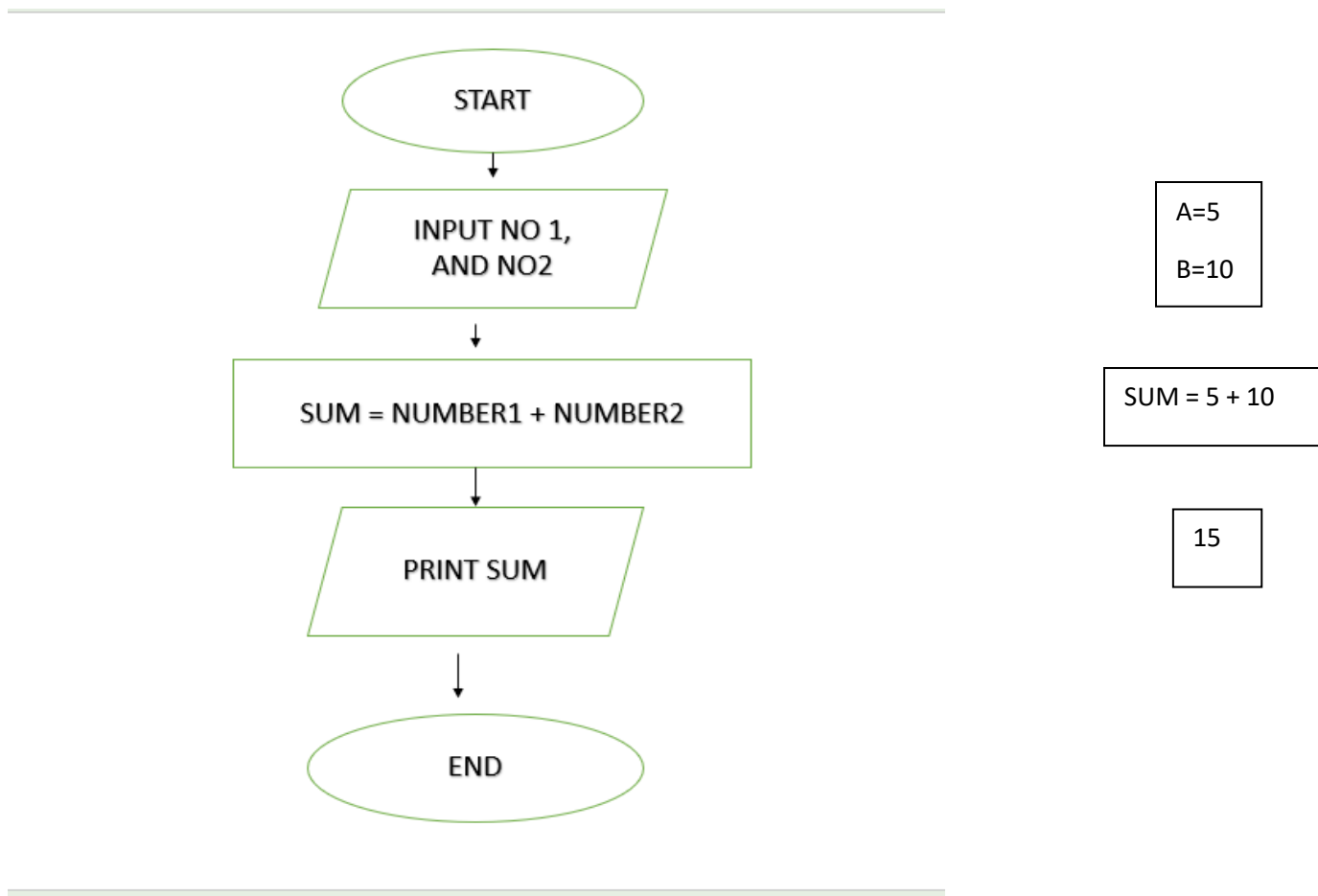
It shows how information enters and leaves the system, what changes the information and where the information is stored. It may be used as a communication tool between a system analyst and any person who plays a part in the system that acts at the starting point for redesigning a system.

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

- A flowchart is a graphical representation of the operations involved in a data processing.



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

- use case diagram describe the high level functions and scope of a system. These diagrams also identify the interactions between the system and the actors. The use cases and actors in use-case diagram describe what the system does and and how the actors use it, but not how the system operated internally.

