Q-1. What is Software? What is software engineering?

Ans. Software refers to the collection of data, programs, and instructions that tell a computer or other digital devices how to perform specific tasks. Software engineering is the discipline of designing, developing, maintaining, testing, and evaluating software and systems.

Q-2 Explain types of software ?

ANS. There are various types of software are :-

1. System software:- a type of computer program that is designed to run a computer's hardware and application program.

2. Application software. The most frequently used software is application software, which is a computer software package that performs a specific function for a user or, in some cases, for another application.

3. Driver software:- also known as device drivers, this software is often considered a type of system software.

   For example:- keyboards, headphones, printer.
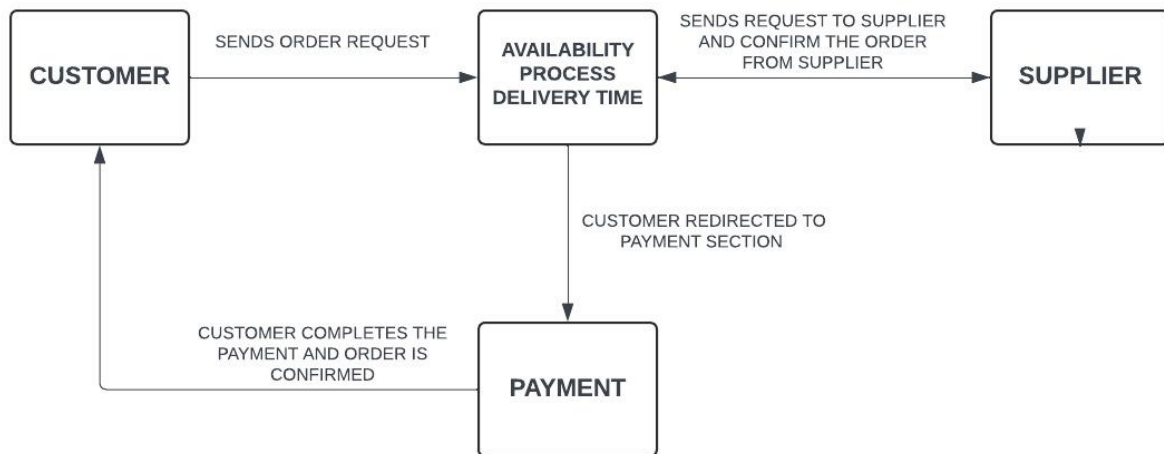
Q-3. What is SDLC? Explain each phase of SDLC

ANS.

- Requirements Analysis: Understanding what users need from the software and defining those requirements.
- Design: Creating the architecture and detailed design of the software system, including its components and their interactions.
- Implementation: Writing the actual code and building the software according to the design specifications.
- Testing: Ensuring the software works as intended and identifying and fixing bugs.
- Maintenance: Updating and modifying the software to fix issues or improve functionality after it has been deployed.

- Project Management: Planning, organizing, and managing resources to complete the software development process efficiently and effectively.
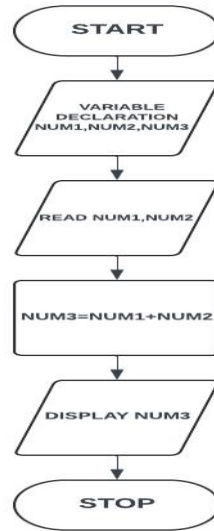
Q4   What is DFD? Create a DFD diagram on Flipkart

ANS.   DFD is also known as data flow diagram, it is used to represent the proper way to flow data.

Q5. What is Flowchart? Create a flowchart to make addition of two numbers ?

Ans. It is the step by step process of algorithm or diagram for the better understand the diagram.

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        ┌─────────────┐
        │    START    │
        └──────┬──────┘
               ▼
     ╱─────────────────╲
    ╱     VARIABLE       ╲
   ╱     DECLARATION      ╲
  ╱   NUM1,NUM2,NUM3       ╲
  ────────────┬────────────
              ▼
     ╱─────────────────╲
    ╱  READ NUM1,NUM2    ╲
  ────────────┬────────────
              ▼
  ┌───────────────────────┐
  │   NUM3=NUM1+NUM2       │
  └───────────┬───────────┘
              ▼
     ╱─────────────────╲
    ╱   DISPLAY NUM3     ╲
  ────────────┬────────────
              ▼
        ┌─────────────┐
        │    STOP     │
        └─────────────┘
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Q6. What is Use case diagram? Create a use-case on bill payment on Paytm.

Ans. A use case diagram is a visual representation of the interactions between users and a system.

BILL PAYMENT ON PAYTM

LOGIN

CHECK BILL

PAYMENT METHOD

PAYMENT

RECEIPT

USER