Software Engineering Assignment

MODULE :1 (SDLC)

Q1.what is software?what is software engineering?

- **Software** is a collection of codes, documents, and triggers that does a specific job and fills a specific requirement.
- **softwareEngineering** is the development of products using best practices, principles, and methods.

Q2.Explan type of software?

1)Application software.
2)System software.
3)Middleware.
4)Driver software.
5)Programming software.
6)Freeware.
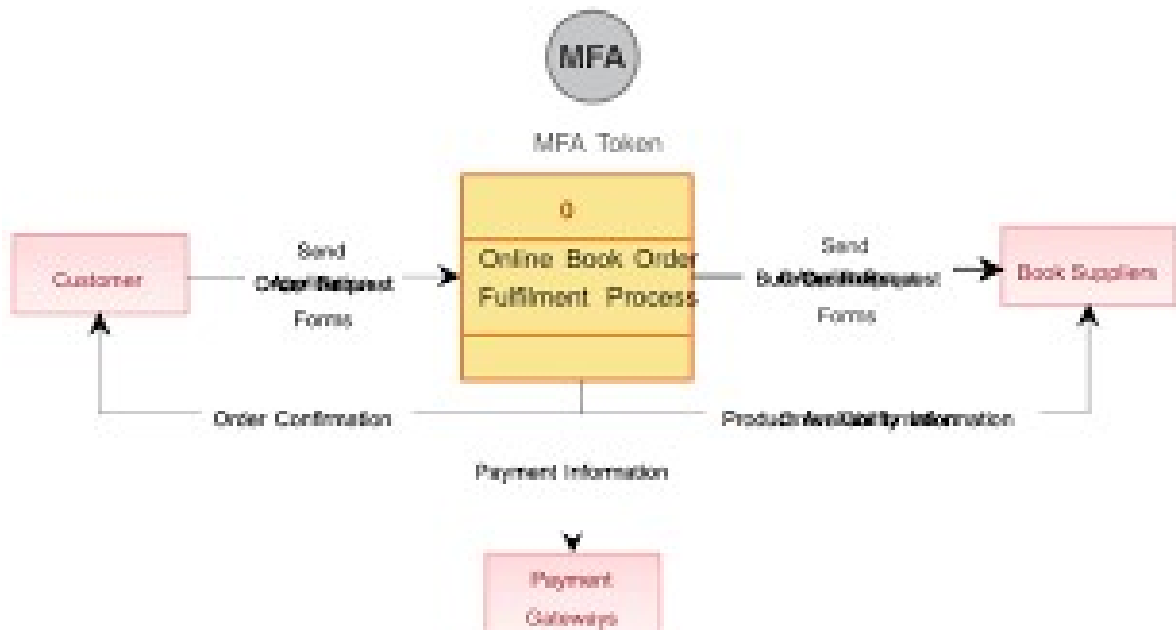7)Open source software.
8)Proprietary software or closed software.

Q3.what is SDLC?Explain each phase of SDLC

- SDLC is focused on software development, while PDLC is focused on product development.

- SDLC consists of various phases, such as **planning, design, coding, testing, and deployment**, while PDLC includes additional phases, such as market research, product planning, and marketing.

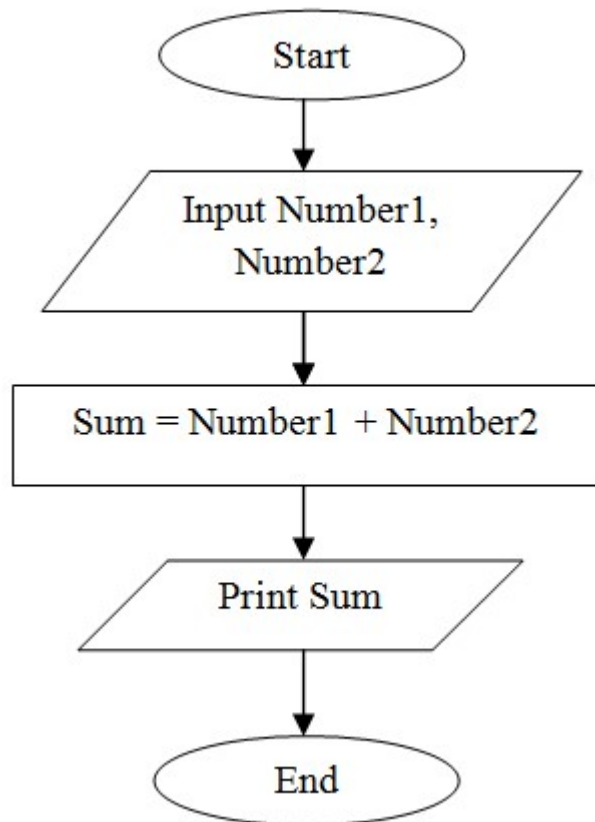# Q4.what is DFD?create a DFD digram on flipkart

- Data flow diagram (DFD) is **a diagram being used frequently in software design**. It visually represents the flow of data throughout processes in a given system.

- **DFD digram on flipkart:-**

Q5.what is flow chart?create a flowchart to make addition of two numbers

- A flowchart is **<u>a picture of the separate steps of a process in sequential order</u>**.

<u>Flowchart:-</u>

```
        ( Start )
            |
            v
    / Input Number1,  /
   /   Number2       /
            |
            v
  [ Sum = Number1 + Number2 ]
            |
            v
     / Print Sum /
            |
            v
         ( End )
```

Q6.what is use case diagram?crate a use-case on bill payment on paytm.

- A diagram is a visual snapshot of information. Think of diagrams as visual representations of data or information that

communicate a concept, idea, or process in a simplified and easily understandable way

Use case bill payment Diagarm

Start

Login to the Payment Management System

Check User Level and Permissions

Check Permission → Manage Payment

Check Permission → Manage Payment Mode

Check Permission → Manage Bill

Check Permission → Manage Receipt

Check Permission → Manage Account

Logout From the System → End

Activity Diagram for Payment Management System

Start

Login to the Payment Management System

Check User Level and Permissions

Check Permission

Check Permission

Check Permission

Manage Payment

Manage Payment Mode

Manage Bill

Logout From the System

Activity Diagram for Payment Management