MODULE-1 ASSIGNMENT

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

Ans. Software is a set of instructions that tells the computer what functions to do. The process of designing, coding, implementing a code is called Software Engineering.

Q-2. Explain types of software?

Ans. There are various types of software few of them are:-

　　1. System Software
　　- system software is a collections of programs that helps to manage the computer system,

　　2. Application Software
　　- application software is used to perform a specific task for the user.

　　3. Driver Software
　　- driver software is basically a path that helps to create communication between O.S and hardware devices.
　　　Ex-printers, scanner, etc.

Q-3. What is SDLC? Explain each phase of SDLC.

Ans. Software Development Life Cycle is a process that is used to Analyze, Design, Implemention of code, Testing and Maintaining a good quality software.

　　Phases of SDLC:-

　　1. Requirement Gathering
　　- In this process we interact with the client and gather information about the service they want.

　　2. Analysis
　　- In this process we analyse what kind of software and tools might be need to create the project.

3. Designing
- In this process we design the web pages or layouts as per customer requirements or we can design by our own experience.

4. Implementation.
- This process is the heart of the app/website. In this we create and implement multiple lines of codes.

5. Testing.
- Before Deploying or handing over the project to the client it is tested for bugs or errors for the good quality of project.

6. Deployment
- Once the testing process is done and all the queries is solved then the project if finally ready to deploy in the market or can be delivered to the client.
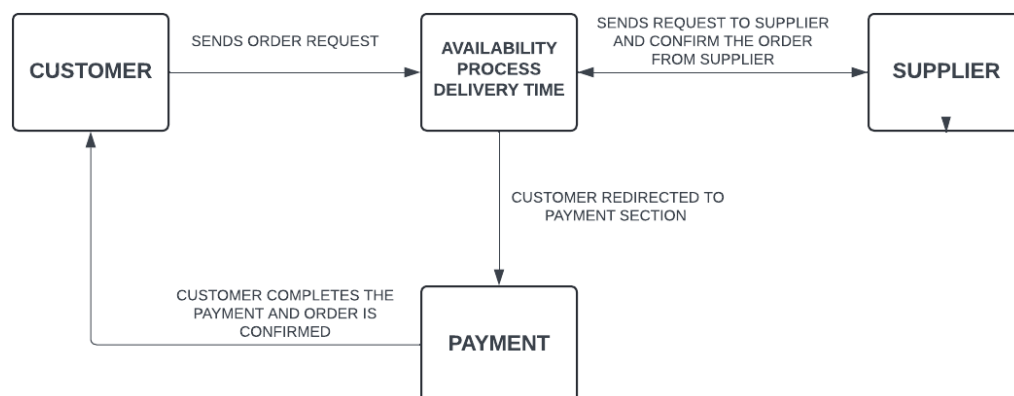
7. Maintenance
- After deployment we have to highly maintain the project to assure the good quality of project.

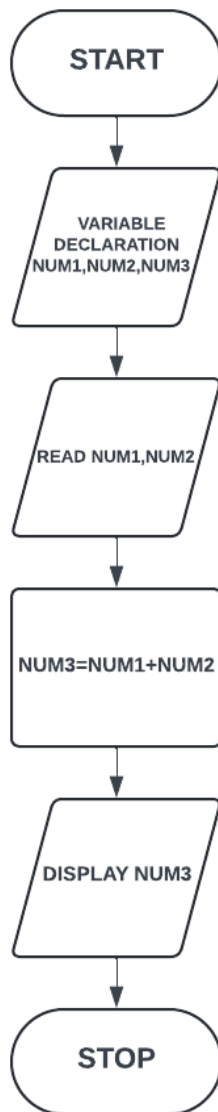Q-4. What is DFD? Create a DFD diagram on Flipkart.
Ans. Data Flow Diagram is used to represent the flow of data in a proper way so that it can be helpfull to implement a program.

-DFD diagram on Flipkart

Q-5. What is Flowchart? Create a flowchart to make addition of two numbers.
Ans. Flowchart is a step by step process of diagrams or algorithms to understand
   a program.

   - Flowchart to make addition of two numbers

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                    │    START     │
                    ╰──────┬───────╯
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                           ▼
                    ╱─────────────────╲
                    │    VARIABLE      │
                    │  DECLARATION     │
                    │ NUM1,NUM2,NUM3   │
                    ╲─────────────────╱
                           │
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                    │ READ NUM1,NUM2   │
                    ╲─────────────────╱
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                    │ NUM3=NUM1+NUM2   │
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                    │  DISPLAY NUM3    │
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                    │    STOP      │
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Q-6. What is Use case diagram? Create a use-case on bill payment on paytm.
Ans.