Q1. What is software? What is software engineering?

Ans. Software is considered to be collection of executable programming code, associated libraries and documentations. Software is considered to be collection of executable programming code, associated libraries and documentations.

Q2. Explain types of software ?

Ans. There are mainly 2 types of software

System software- a system software is a software that directly operates the computer hardware and provides the basic functionally to the user.

Application software- Software that performs special functions or provides functions that are much more than the basic operation of the computer is known as application software.

Driver software- driver software are the programs that enables to communicate the computer system to the hardware, for example – printer, canner, mouse, and keyboard.
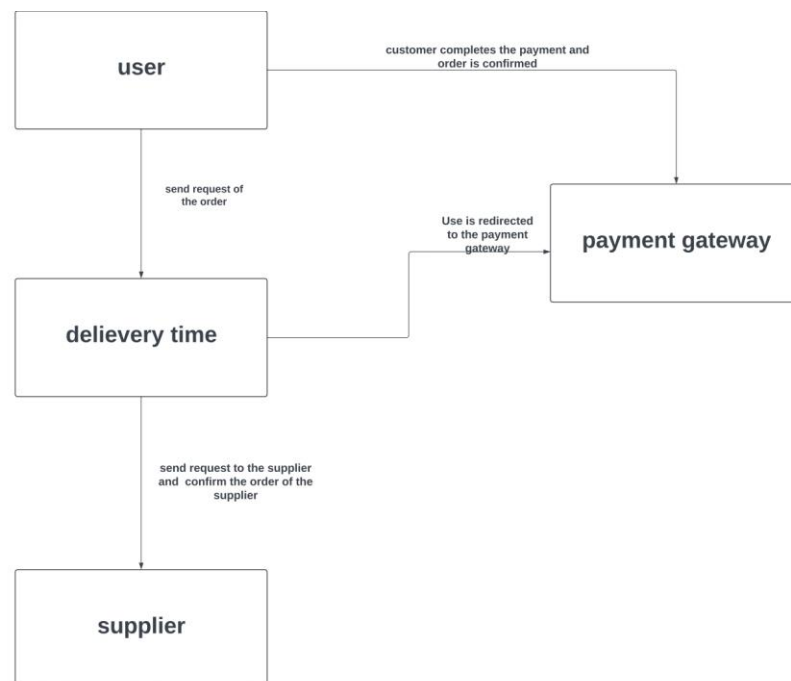
Q3. What is SDLC? Explain each phase of SDLC

Ans. Sdlc stands for software development life cycle, there ae 7 basic stages of sdlc, requirement gather, analysis, designing, implementation, testing, development, maintenance.

1. Requirement gathering – as the name suggest this stage helps the developer to gather information and reach the goal as per the clients, requirement.

2. Analysis - this stage requires the developer to analyze and understand the requirement of the tools for the given projects.

3. Designing – in designing the developer design the website according to the requirements about the client, as like web pages, layout.

4. Implementation- this process is the heart of the applications/websites. The developer implements multiple lines of the codes.

5. Testing- in this stage is about testing the apps/websites, before handing over the software the testing stage occurs where thoron testing will be conducted for no errors, quality of the software.

6. Deployment – after testing stage and a software's is in good quality of the software it is finally ready to deploy/handover the software to the client.

7. Maintenance – after deployment of the software there will be maintenance of the software for the betterment of the software and maintaining the high quality.
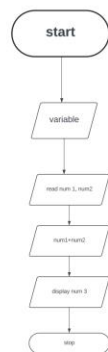
Q4. What is DFD? Create a DFD diagram on Flipkart ?

Ans. DFD stands for data flow diagram, it is used to represent the flow of data in a proper way. It is also helpful for the implementation of a program.

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

ANS.   It is a step by step process of diagrams or algorithm for better undertenant of programs.

```
        ┌──────────┐
        │  start   │
        └──────────┘
             │
             ▼
         ╱─────────╲
        ╱ variable  ╲
        ╲───────────╱
             │
             ▼
        ┌──────────────┐
        │ read num 1, num2 │
        └──────────────┘
             │
             ▼
        ┌──────────────┐
        │  num1+num2   │
        └──────────────┘
             │
             ▼
         ╱─────────╲
        ╱ display num 3 ╲
        ╲───────────────╱
             │
             ▼
        ┌──────────┐
        │   stop   │
        └──────────┘
```

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 a system's functional requirements.

use case daigram on paytm

customer

login

check bill

payment gateway

establishing payment

payment reciept