**MODULE: 1**

SE – Overview of IT Industry

**Q.1 What is software? What is software engineering?**

Ans. **Software** is a program or set of programs containing instructions that provide desired functionality. Software Engineering is the process of designing, developing, testing, and maintaining software.

**Q.2 Explain types of software.**

Ans.

* **Application software**
* **System software**
* **Driver software**
* **Middleware**
* **Programming software**

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

Ans. **The Software Development Life Cycle (SDLC) is a process used by software development organizations to plan, design, develop, test, deploy, and maintain software applications. The SDLC methodology focuses on the following phases of software development:**

1. Requirement Gathering

2. Analysis

3. Designing

4. Implementation

5. Testing

6. Maintenance

**Q.4 What is DFD? Create a DFD diagram on Flipkart.**

Ans. **DFD is the abbreviation for Data Flow Diagram. The flow of data of a system or a process is represented by DFD. It also gives insight into the inputs and outputs of each entity and the process itself. DFD does not have control flow and no loops or decision rules are present. Specific operations depending on the type of data can be explained by a flowchart. It is a graphical tool, useful for communicating with users, managers, and other personnel. it is useful for analysing existing as well as proposed system.**

**Q.5 What is Flow chart? Create a flowchart to make addition of two numbers.**

Ans. **Flowchart is a graphical representation of an algorithm. Programmers often use it as a program-planning tool to solve a problem. It makes use of symbols which are connected among them to indicate the flow of information and processing.**

Input Number 1, Number 2

Sum = Number 1 + Number 2

Print Sum

**Q.6 What is Use case Diagram? Create a use-case on bill payment on Paytm.**

Ans. **Flowchart is a graphical representation of an algorithm. Programmers often use it as a program-planning tool to solve a problem. It makes use of symbols which are connected among them to indicate the flow of information and processing.**