**Module : 1**

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

**Ans.** Software engineering is the branch of computer science that deals with the design, development, testimg and maintenance of software application. Software engineers apply engineering principles and knowledge of programming languages build software solutions for and user.

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

**Ans.** The two main categories of software are application software and system software. An application is software that fullfills a specific need or performs tasks. System software is designed to ruton a computer’s hardware and provides a platfrom for application to run on top of.

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

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

**Q.4 What is DFD ? Create a DFD digram on Instagram ?**

**Ans.** A DFD is a way of data through a process or a system. The DFD also provides information about the outputs and inputs of each entity and the process itself. A data-flow diagram has no control flow – there are no decision rules and no loops. Specific operations based on the data can be represented by a flowchart.

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

**Ans.** A flowchart is a types of diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach tosolving a task.

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

**Ans.** A use case diagram is a graphical depiction of a user’s possible interactions with a system. A use case diagram shows various use cases and different types of users the system has and will often be accompanied by other types of diagram as well. The use cases are represented by either circles or ellipses.