**MODULE 1 (SDLC)**

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

* Software is a program of set of programs containing instruction that provide desired functionality . Engineering is the process of designing and building something that serves a perticular purpose and finds a cost-effective solution to problems.
* Software engineering is the process of designing,devloping, testing and maintaining software.

1. **Explain types of software.**

* Application Software
* System Software
* Driver Software
* Middleware
* Programming Software

1. **What is SDLC? Explain each phase of SDLC**

* SDLC stands for Software Development Life Cycle.
* The SDLC refers to a methadology with clearly defined processes for creating high-quality software.
* The SDLC methdology focus on following steps:

6.Maintanance

5.Testing

4.Implementation

3.Design

2.Analysis

1.Planning

1. **What is DFD ? Create a DFD Diagram on Flipkart.**

* DFD- Data Flow Diagram.
* The flow of data of a system or a process is represented by DFD.
* It also give insights into the input and outputs of each entity and the process itself.
* The DFD belongs to structured-analysis modelling tools.
* DFD dose not have control flow and no loops or decision rules are present.

Example of DFD diagram on Flipkart :-

**Flipkart**

1. **What is Flow Chart ? Create a flowchart to make addition of two numbers.**

* Flowchart is a visual representation of the sequence of steps and decision needed to perform a process.
* Each step in the sequence.
* A flowchart can also be defined as a diagrammetic represantation of an algoritham, a step by step approch to solving a task.
* A flowchart can be helpful for both writing programs and explaining the program to others.

STOP

DISPLAY A AND B

C=A, A=B, B=C

READ A AND B

DECLEAR VAR A,B AND C

START

1. What is Use case Diagram ? Create a use-case on bill payment on paytm.

* Use – case diagrams discribe the high- level functions and scope of a system.
* These diagrams also identify the interactions between the system and its actors.
* A use – case diagram is a way to summarize details of a system and the users within that system.

**System**

VISITOR

ADMIN

SERVICE PROVIDER

REGISTERED USER