**Software Engineering Assignment**

**Module :1(SDLC)**

**What is software? What is software engineering?**

**=>**software is a set of instruction, data or program used to operate a computer and execute specific tasks.

**=>**software engineering is the process of designing, developing, testing, and maintaining software.

**Explain types of software?**

**=>**  types of software:-

1. Application software

2. System software

3. Driver software

4. Middleware

5. Programming software

**Application software :-**

=>Application software is a computer software packages that performs a specific function for a user, or in some cases, for another application.

Ex:-MS office, paint, powerpoint,etc..

**System software :-**

**=>**These software programs are designed to run a computers application programs and hardware.

EX:-Notepad, Calculater, etc..

**Driver software**:-

=>Also known as device drivers, this software is often considered a type of system software.

Ex:-Audio drivers, video drivers, etc..

**Middleware:-**

**=>**Middleware is an elementary software that connects two secrates applications.

Ex:- Database middleware, application server middleware.

**Programming software**:-

=>computer programmers use programming software to write code.

Ex:-turbo c, Eclipse, sublime, etc..

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

**=>**The Software Development Life Cycle(SDLC) refers to a methodology with defined processers for creating high-quality software.

=>SDLC methodology focuses on the following phases of software development:-

1. Requirement gathering

2. Analysis

3. Designing

4. Implement

5. Testing

6. Maintainance

**What is DFD? Create a DFD diagram on flipcart?**

=> DFD stands for Data Flow Diagram .

=> A data flow diagram is a way of representing a flow of data through a process of a system.

=> DFD diagram on flipcart :=

User

Search item

Registration

Login

Account

Buy items

Make order

Payment

Track order location

Log out

**What is Flow-chart? Create a flowchart to make addition of two numbers?**

**=>**Flowchart :- A diagram that shows the connections between different stages of a process or parts of a system.

=>Flowchart to make additions of two numbers:-

Start

Input numbers: num1, num2

Ans =num1+num2

Print Ans

End

**What is use case Diagram? Create a use-case on bill payment on paytm?**

=> A use case diagram is a graphical depiction of a users possible interactions with a system.

=> A use-case on bill payment on paytm:-

Start

Electricity bill

Add new bill

Select state

Select electricity board

Actor

Personal information

Bill amount

Add bank detail

select an option to pay

pay bill

stop