

# Assignment-1

## MODULE-1:SE-OVERVIEW OF IT INDUSTRY

### 1) what is software ? what is software engineering?

#### SOFTWARE :

- + Software is the language of computer. it is set of instructions, data and programs used to operate computers and execute specific tasks.
- + It is opposite of hardware, which describes the physical aspects of a computer.

#### SOFTWARE ENGINEERING :

- + Software engineering is the branch of computer science that deals with the design, development,  
The term programmer is sometimes used as a synonym, but may emphasize software implementation over design and can also lack connotations of engineering education or skills.
- + Testing and maintenance of software applications.

### 2) explain types of software.

**There Are 2 types of software.**

**1. system software**

**2. application software**

## **1.system software:**

- ✚ Electronic devices are useless without this software. there are different types of system software. for example windows, macOS, android and ios.
- ✚ it is a computer program that helps the user to run computer hardware or software and manage the interactions between them. it constantly runs in the background.

## **2.application software:**

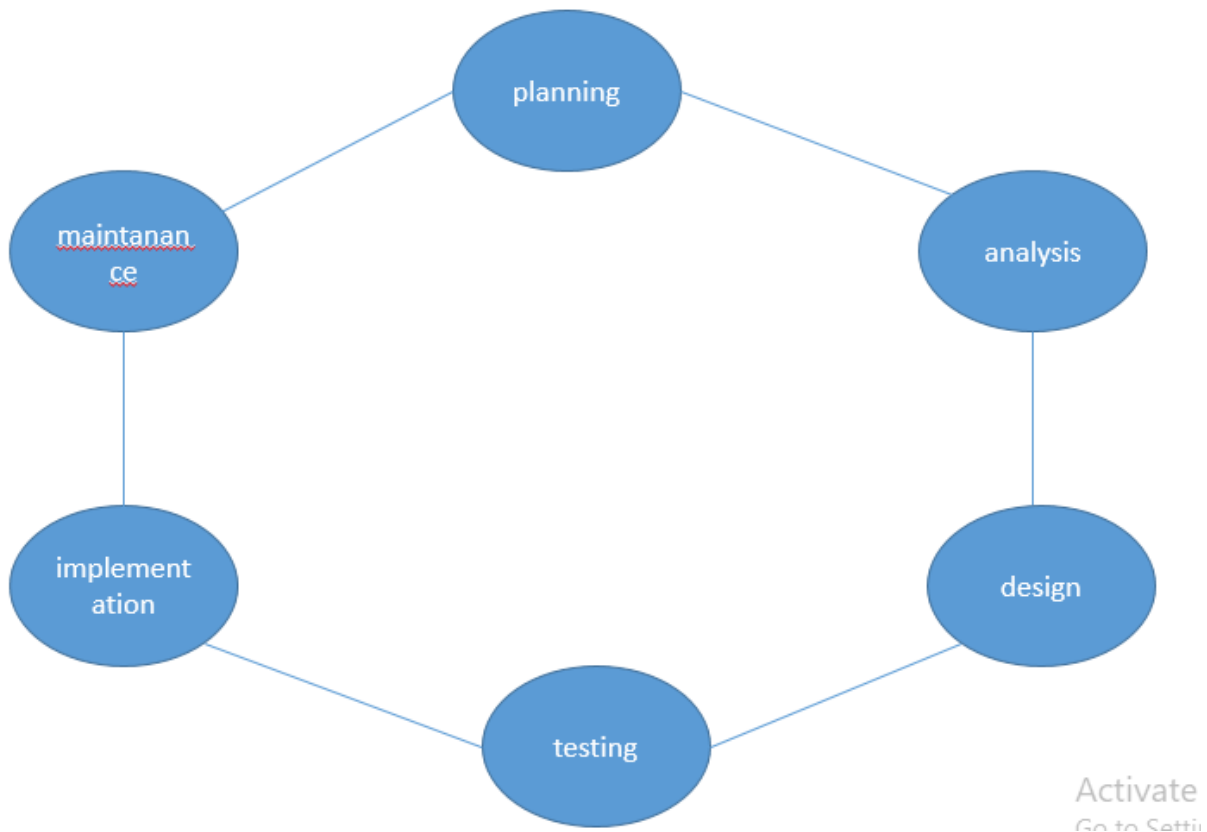
- ✚ Anything that is not operating system or a utility is an app. types of application software.

## **3)what is sdlc.?explain each phase of sdlc**

### **SDLC:**

#### **➤ software development life cycle**

- ✚ A software development life cycle is essentially a series of steps, or phases, that provide a model for the development and life cycle management of an application or piece. there are 7 phases of sdlc.



## **Phase of SDLC**

### **1.planning:**

- In this phase, developers plan the upcoming project.it helps to define the problem and scope of any systems, as well as determine the for their new system.

### **2.analysis:**

- The analysis stage includes gathering all the specific details required for new system as well as determining the first ideas for prototypes.

### **3.design:**

- The second of the software development life cycle phases is often done concurrently with the first.
- This phase is necessary for the developers. They will first outline the details for the overall application long side specific aspects, such as; use interface, system interface, network and network requirements and database

### **4.testing:**

- Different types of testing occur during this phase, such as a code quality, unit testing, integration testing, performance testing and security testing.

### **5.implementation:**

- Computer programming or coding is the composition of sequences or instructions, called programs, that computers can follow to perform tasks.

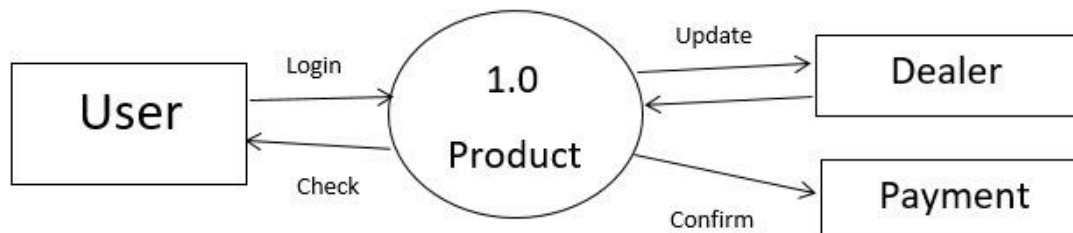
### **6.maintanance:**

- Maintain software functionality, make upgrades to the coding, and ensure any repairs needed to the software are completed.

#### 4)what is dfd? Create a dfd diagram on flipkart.

- ✚ A data flow diagram is a traditional way to visualize the information flows within a system.a neat and clear dfd depict.
- ✚ A good amount of the system requirements graphically. It can be manual automated or a combination of both.

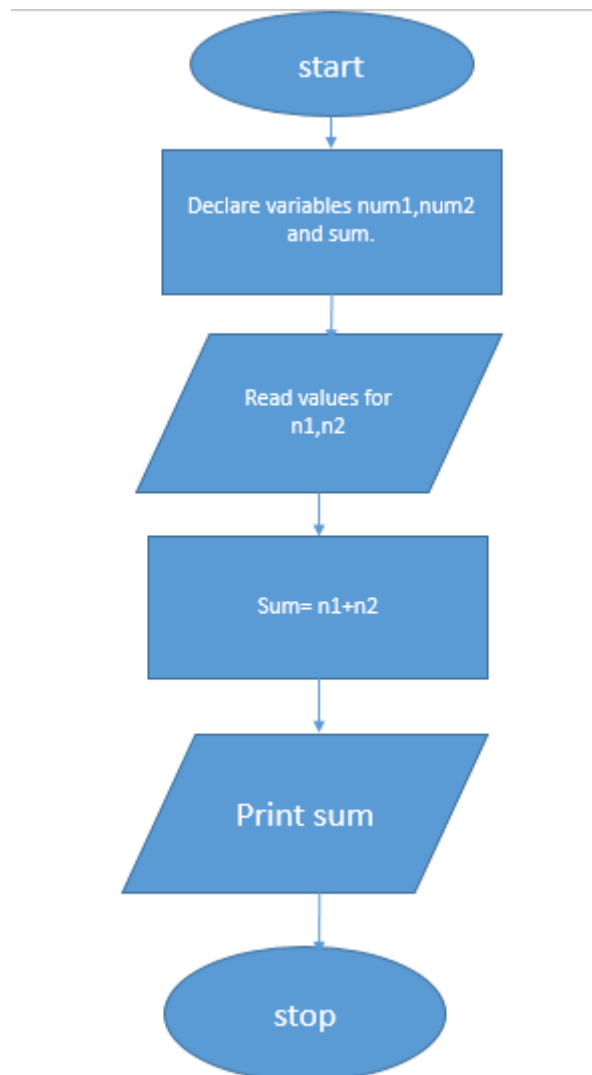
#### **DATA FLOW DIAGRAM ON FLIPKART**



**5)what is flow chart? Create a flowchart to make addition of two numbers.**

- ✚ A flowchart is a graphical or symbolic representation of a process.
- ✚ Each step in the process is represented by a different symbol and contains a short description of the process step.
- ✚ Flowchart is a type of diagram that represents a workflow or process.

**flowchart to make addition of two numbers**



**6) what is use case diagram? Create a use-case on bill payment on paytm.**

- + Use case diagrams describe the high-level functions and scope of a system.
- + These diagrams also identify the interactions between the system and its actors.
- + The use case and actors in use-case diagram describe what the system does and how the actors use it, but not how the system operates internally.

# Use case on bill payment on paytm.

