Module 1

SE – Overview Of It Industry

1. What Is Software ? What is software engineering?

⇨ Software that is set of instruction that execute the particular instruction.

⇨ Software that is set of program that user to allow the specific task.

⇨ Software Engineering that is process of designing , developing, testing and maintaining. It follow the systematic structure to creat the well functionality software.
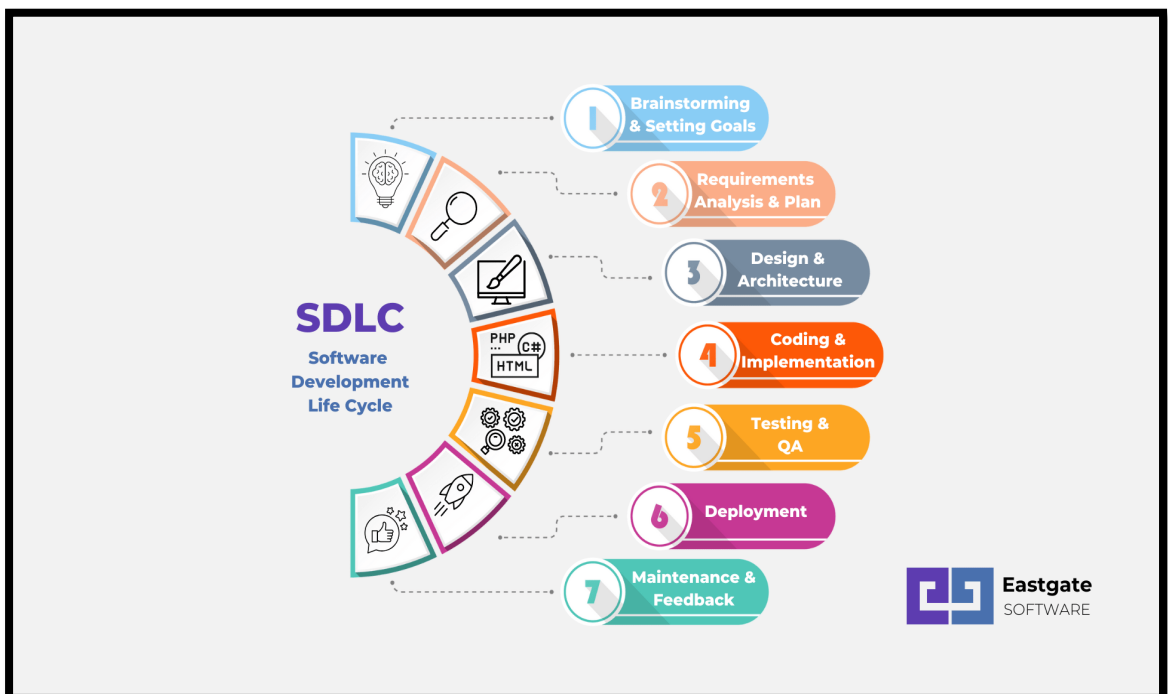
2. Explain types of software?

⇨ **Application software** :- Application program design to perform the specific task.

⇨ A computer can run without application software.

⇨ Application can be easily installed and uninstalled as per required.

⇨ Example :- Ms word , Notpad ,excel.

⇨ **System software :-** System software that is main software that run the computer

⇨ Operating system that is main example of system software.

⇨ When turn on the computer it activate the hardware control the function.

⇨ **Driver software :-** Driver software that is also known as a device driver.

⇨ Device drivers control the devices and peripherals connected to a computer helping to perform their specific tasks.

⇨ Every device that are connected with the one driver function.

⇨ Example :- Usb storage , Headphone , Printer

⇨ **Middleware :-** The term middleware describes software that mediates between application and system software or between two different kinds of application software.

⇨ Example, middleware lets Microsoft Windows talk to Excel and Word.hat The middleware that software

⇨ **Programming software :-** it is set or collection of tools that help developers writing software or program.

⇨ It creating,debugging and maintaining the software or program

⇨ Example :-VScode, Eclipse, Compiler , Linker.

3. What is Sdlc ? Explain Each Phase of sdlc

⇨ Sdlc that is represents the process of developing the software

⇨ Sdlc follows the systemetic approach.

⇨ Customer requirement gathering and analysis

⇨ Designing

⇨ Developing

⇨ Testing

⇨ Deployment

⇨ Maintenance

⇨ **Customer requirement gathering and analysis :-**

⇨ Customer requirement gathering that is important stage in the sdlc model

⇨ Customer give the requirements according to the his needs.

⇨ **Designing :-** in the designing phase requirements analysis and design of the software project.

⇨ **Developing :-** As per the designing programming is built.

⇨ Implements of the design begin with the coding.

⇨ Developers have to follow the coding guidelines their management and programming tools like compilers,interpreter etc

⇨ **Testing :-** Testing is the most important stage that check the software that is according to the customer requirements or not.

⇨ It check all the functionality that is working or not

⇨ Testing is enhance the quality of the software.

⇨ **Deployment :-** software that is certified after that no bugs or error stated then it is deployed.

⇨ After software is deployed then maintenance is begins.

⇨ **Maintenance :-** When the clients starts using the software then real issues come up and requirements should be solved from time to time.
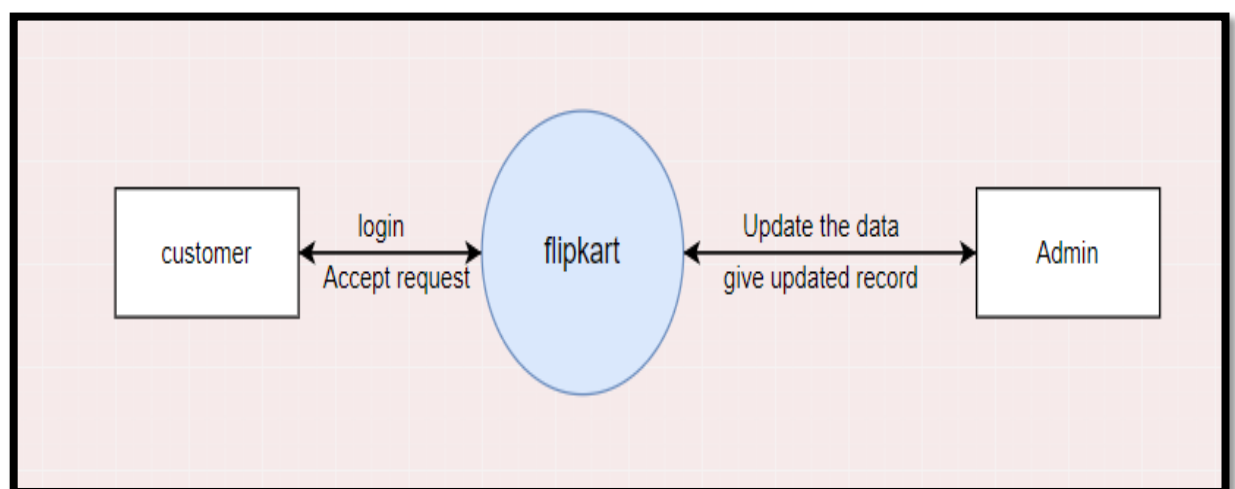
4. What is DFD ? Create a DFD Diagram on Flipkart
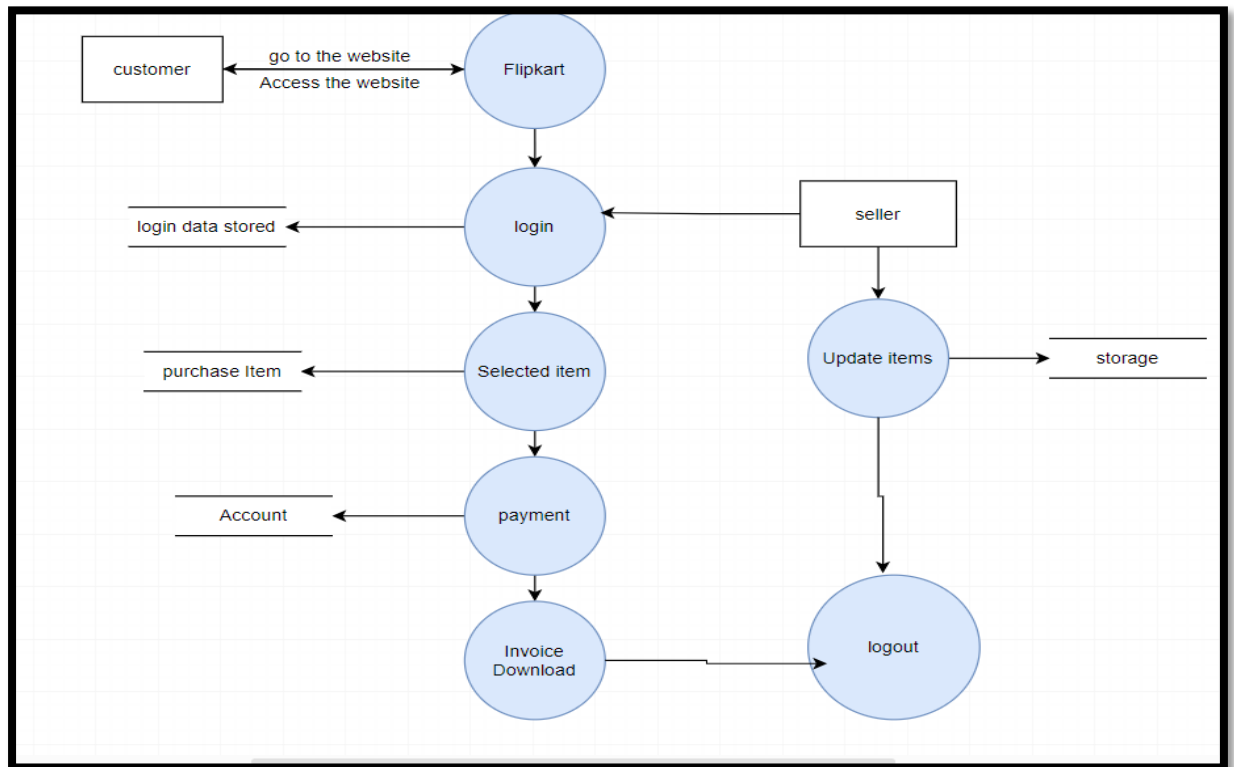
=> DFD means Data Flow Diagram

=> DFD is Visualization that maps out the sequence information

Actor , step within the process.

=> provide a graphical representation of the data flow of a system that can be understood by both technical and non technical user.
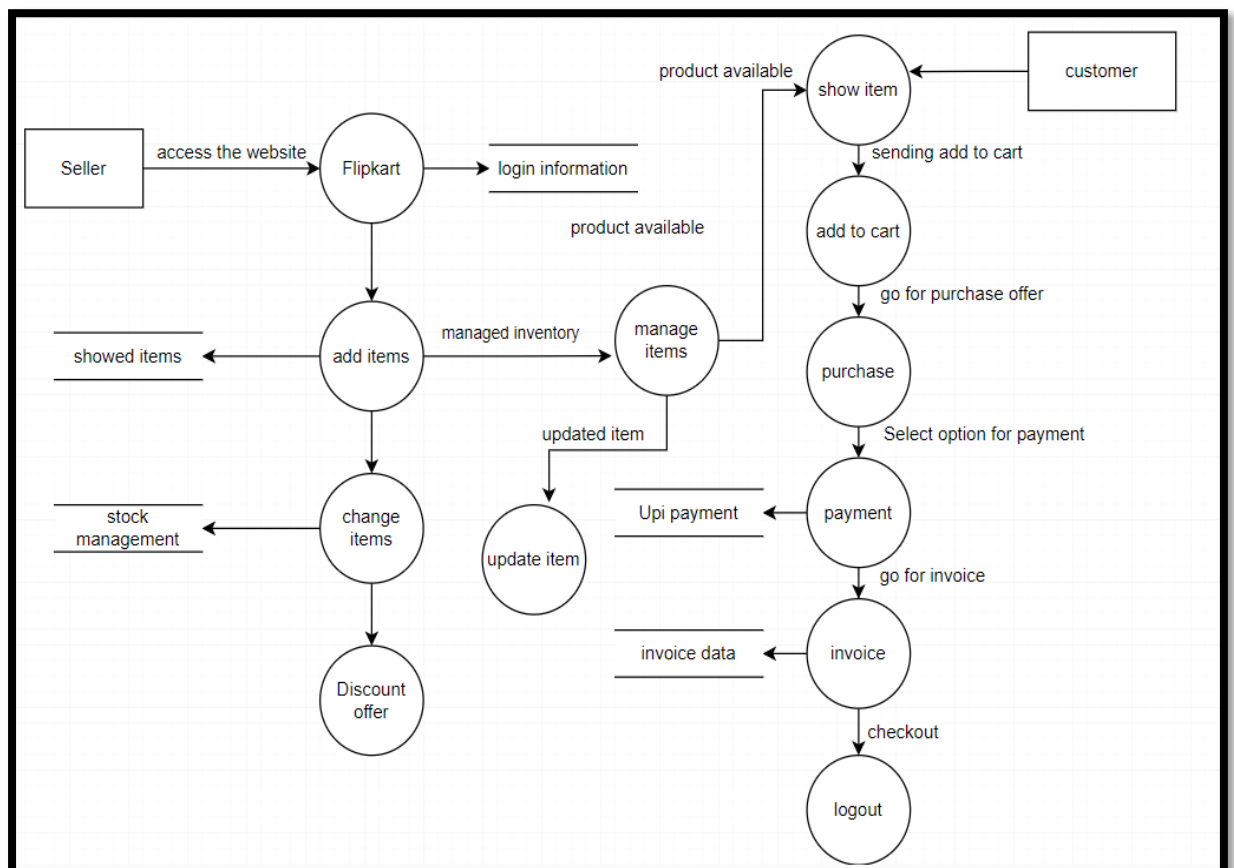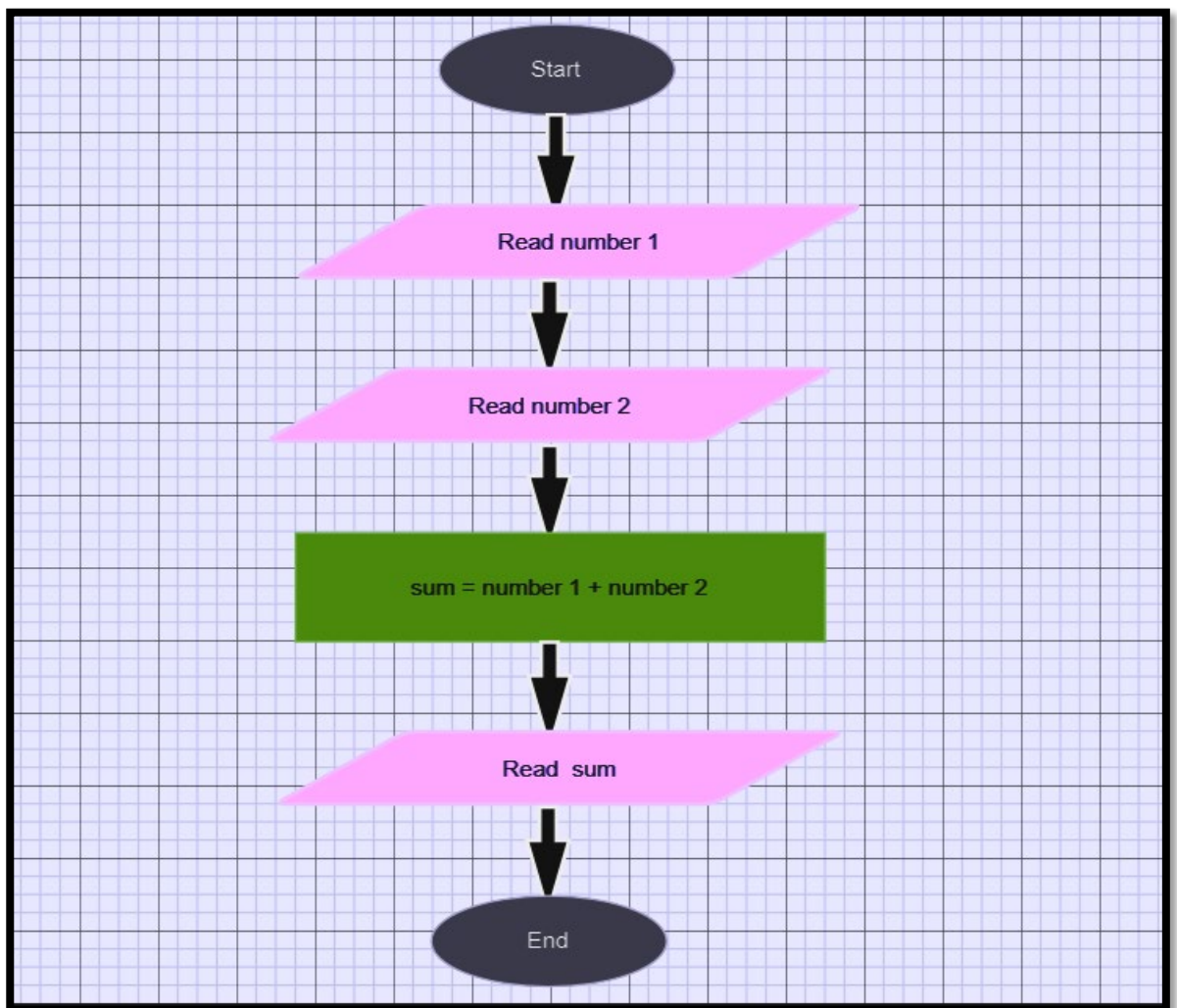
Level – 0

Level – 1

Level – 2

5. What is flowchart ? create a flowchart to make addition of two numbers?

=> flowchart is a graphical representation of the data or algorithm for better understanding of the code visually.

It display step by step solution of the problem

Flowchart is a picture of the boxes that indicate process flow sequentially

Flowchart is step by step approach to solving a particular task

6. What is Use case Diagram? Create a use-case on bill payment On Payment

⇨ Use case diagram is way summarize details of the system and within the system.

⇨ Represents the goal of the system and user.
⇨ It Specify system requirement.
⇨ System objectives include planning overall requirement.