

1. What is software? what is software engineering?

- ❖ Software is a set of instructions, data or programs used to operate computers and execute specific tasks..
- ❖ Software is a generic term used to refer to applications , scripts and programs that run on the device..
- ❖ These programs are designed to run a computer applications
- ❖ Software engineering is defined as a process of analysing user requirements and then designing, building, and testing software application which will satisfy those requirements.

2. Explain types of software.

- ❖ There are 5 types of software
 1. System software
 2. Application software
 3. Driver software
 4. Middleware software
 5. Programming software

1.system Software:

- ❖ System software is mainly designed for managing system and run independently.
- ❖ It's used to write a low level programming.
- ❖ Examples: OS is best in system software

2.Application Software:

- ❖ An application program is a computer program designed to carry out a specific task other than one relating to the operation of the computer.
- ❖ Application software is a computer software that run function for user
- ❖ It is self-contain program

3.Driver Software:

- ❖ Driver software also known as device driver.
- ❖ A software driver is a type of software program that controls a hardware device. On any computer, smartphone, tablet, different hardware components that are part of the computer and attached devices need to communicate with each other for a computer to function and work.
- ❖ It control the device and enabling them to perform their specific task.
- ❖ Driver software is communicating with the device and hardware dependent and operating system.

4.Middleware Software:

- ❖ Middleware is software that different applications use to communicate with each other.
- ❖ It is a software that mediates between application and system software
- ❖ Ex: it's enables Microsoft windows to talk to word

5.Programming software:

- ❖ It is a set of programs which helps the software developers by giving them in creating, Debugging and maintain other programs and software.
- ❖ It is used to write code..

3.What Is SDLC ? explain each phase of SDLC

- ❖ SDLC is a structure that imposed the software product that defined the process for planning, analysis, designing, implementation, testing and maintenance.
- ❖ There are six phases of SDLC
 1. **Requirement collection**
 2. **Analysis**
 3. **Designing**
 4. **Implementations**
 5. **Testing**
 6. **Maintenance**

1.requirement collection:

- it is processing that requirement gathering and identify your project to start to end..
- This process is understanding what you are trying to build and why you are building it.

2.Analysis:

- analysis is very important throughout any software development process.
- And plays a significant determining factor in the success of any software project in terms of usefulness and delivery within established constraints and based on how it is performed.

3.designing:

- ❖ it designs lay out of page or application. This mechanism transforms a data to some suitable form, which helps a coding. The design is representing a client's data.

4.implementaion:

- ❖ translating the data and design into system software. And after developers use tools and programming languages to build the code.

5.testing:

- ❖ in this phase developers tests a software and find a errors and deficiencies. Testing is also known as a quality assurance.

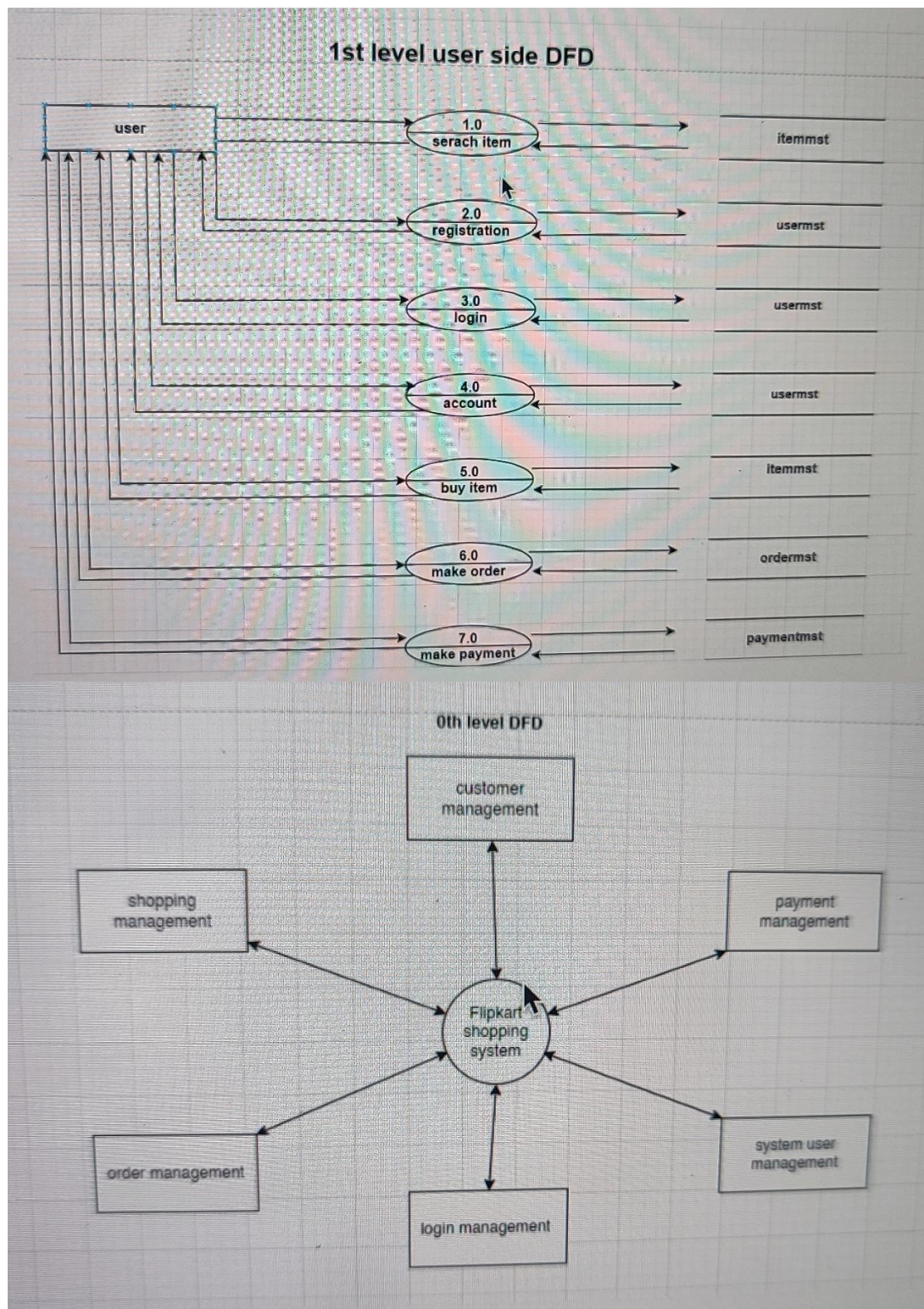
6.maintenance:

- ❖ if tester finding a debug from project, they return to the developers and then he resolving debug and implement correct code and send to a tester.

4.What is DFD? Create a DFD diagram on Flipkart

- ❖ DFD means 'data flow diagram' and also known as a 'bubble chart' through we can represent the flow or data graphically on an information system by using DFD

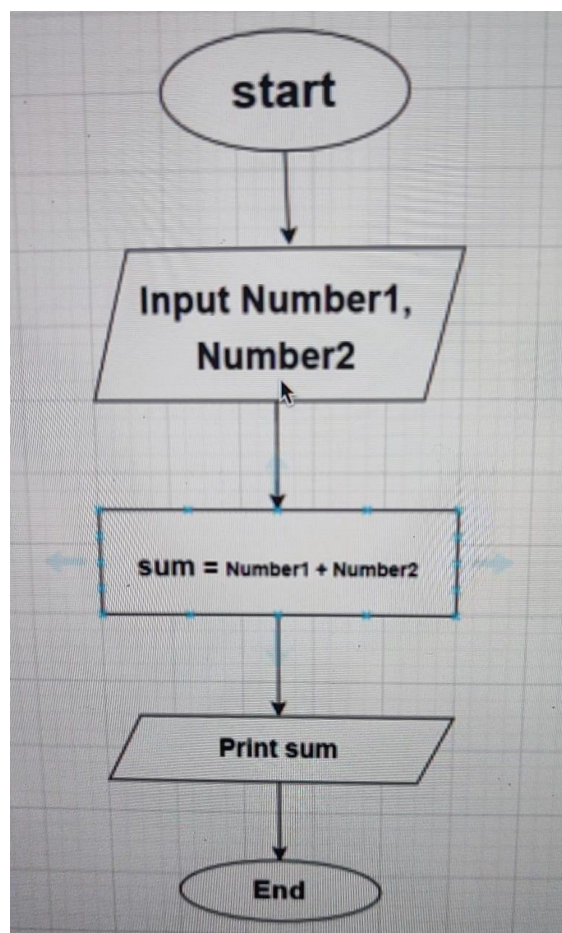
It describes how data is processed in a system in terms of input and output.



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

- ❖ A flow chart is a picture of the separate of a process in sequential order. it is a generic tool that can be adapted for a wide variety of purpose and used a various process.
- ❖ Flow chart is used to develop understanding of how a process is done and communicate to other how a process is done.

Flow chart of addition of two numbers.



6. What is use case Diagram? Create a use case on bill payment on Paytm.

- ❖ A use case diagram is graphical depiction of a user's possible interactions with a system.
- ❖ it shows various use cases and different types of users the system has and will often be accompanied by other types of diagrams as well. The use cases are represented by either circles or ellipses. The actor is often shown as stick figures.

