**MODULE:1**

SE: overview of IT industry

1)What is software?

\*it is the combination of data, programs and informations.

\*it helps to give instructions to complete the tasks.

\*example are macOS, linux, window etc.

\*software makes the business task more easier.

\*purpose of the software is to convert inputs to give the better products.

2)what is software engineering?

\*software engineering is the way to analyse, develop,

Maintain, operate, test and design the computer software.

\*it is the procedure to first understand the users need and make the software according to their requirement.

\*to make the software which makes the human life easy to work with the help of computer.

\*software engineers are the peoples who makes software like applications, desktop apps, web apps etc. through which user can easily operate and find the wanted solutions.

3)explain types of software?

<there are three types of software.>

1. software system/ operating system (os)

\*provides the basic function for the usage of the computer and helps to run the computer hardware and system.

\*ex: linux , ubntu , macOS, window.

1. application software

\*is the general way of computer programs to operate users tasks.

\*mobile app:

Application that run on a mobile.

Ex: Instagram, snapchat, whatsapp.

\*desktop app:

Which works on desktop.

Ex: mozilla firefox, Microsoft edge, safari.

\*web app:

Which works on web browser.

Ex: chrome, google.

1. programming software

way to communicate between machine and people.

This software is pawritten in a programming language.

It is said as the compiler.

Ex: c, c++, python, basic.

4)what is SDLC?

Software development life cycle.

\*it is a method to develop, maintain, support, establish the new software or application.

\*software development life cycle has the different phases or steps to follow the exact way to get the wanted output.

\*SDLC helps to make the proper product according to requirement of the user.

\*it has the 6 phases.

1.planning/requirement gathering

The phase in which all the requirements and information are gathered from the different peoples to make the appropriate software according to the need of the customer in their business.

2.analysis

The way to analyse the best to get the better product or output

3.design

With the help of the need gathered by the phase one, software can be designed through it which is used as the input made by the software architect to get the wanted output.

4.implementation

It is also known as the backend process/coding

After the software design is made it is translated to the

understand. Which is further implemented.

5.testing

After completing the implementation of the software. It is checked to know the user that does he gets the wanted result he needed or not. The product according to the analyses don.

6.maintenance

To update the software regularly or to check whether there is a error or not. To support the software system by new uploads and updates and when they get the wrong feedbacks it is to be improved.

This process is followed continuously to get the best application or software which is to be in need in the market.

5)what is DFD? Create a DFD on flipcart.

Data flow diagram.

It is the process to how the data flow in the simplified manner which makes easy to understand to the admin, manager and other people.

The procedure to show the input and the output with the perfect decision.

It is represented graphically with the diagram and the flow chart.

Rules of DFD:  
\*every DFD has starting and ending.

\*every inputs has the confirm output.

\*DFD is followed by the process.

\*DFD has minimum 3 steps and maximum 9 steps.

levels of DFD:

level 0- it shows the login and logout in the external entity.

Level 1-it shows the process step wise in which they can get the actual idea about the data flow

Level 2/3- the data is stored in the given DFD which shows the further ending.

6)what is flow chart?

\*Flow chart is easy representation to a business man and the locals

\*is used to show the step wise solution.

\*flowchart play the roles to make the problems and logical algorithms in the easy solutions.

Program can be of three type:

1.linear program structure- which shows the process wise solution.

2.branching program-which shows the branching in the process for different values.

3.looping-used in the functions to make the descision for yes or no