INTRODUCTION TO OPERATING SYSTEMS AND NETWORKS

AGENDA:-

OBSERVATION-SOFTWARE AND HARDWARE-NETWORKS

OBSERVATIONS:-

 Observation is a very important thing. We have to observe everything around us.

WHY OBSERVATION IS IMPORTANT?

- If we observe carefully, we can able to find different patterns. By identifying patterns we can able to ask questions.
- Asking questions is very important because it shows our curiosity.
 "ONLY CURIOUS MINDS WILL LEARN."
- Curiosity is the basis of human intelligence.
- Observation is a very important skill.

SOFTWARE:-

- Software is the set of instructions to the hardware.
- It is easily Changeable.
- It is flexible.

HARDWARE:-

• The components which we can touch and when electricity is not present also we can able to see them.

OPERATING SYSTEMS:-

- It is the boss of the computer.
- O.S is the main software that makes the other softwares work with the hardware.
- O.S is the interface between hardware and software.

DIFFERENT TYPES OF OPERATING SYSTEMS:-

- O.S can be in computer and mobile.
 - **COMPUTER O.S:-**
- Windows 10, Ubuntu, Mac OSX etc.....
 MOBILE O.S:-
- Android 11,ios13 etc.....
- Mac OSX is the operating system present in apple.
- los13 is the operating system present in apple phone.
- When we make a software the initial one we call it as a version 1.
- If we add a major functionality to it we call it as a version 2, version 3, etc...
- If we add a minor functionality to it we call it as a version 1.1,1.2,etc...

NETWORKS:-

- Computer network that interconnects billions of computing devices throughout the world.
- The connection between two devices is called network.
- Collection or group of networks is called internet.
- Let us take an example as follows:-
- Let's say we have a message "HOW ARE YOU?". This message is broken down into Smaller parts as HOW ARE YOU
- These broken parts are called as packets.
- These packets are transmitted through networks.
- After transmission, these packets will reassemble in it's original positions.
- After completion these messages will get delivered to the desired location.
- Here, the original message is called as Data.
- We define data as "Any information that has to be stored".

- This Data is broken down into packets.
- Entire data can't be transformed in a single packet.
- The connection between two networks is called as a junction.
- The technical term for junction is "Router".
- The path in which we go to the desired network is called "Route".
- We will have multiple routes. We will choose the best route.
- Traffic between the networks is called "Congestion".

CLIENT AND SERVER:-

- Client →One that requests.
- Server→One that responds to the request.
- Exchange of information between client and server happens over the internet.

INTERNET BROWSERS:-

- Browsers acts a interface to search the contents.
- Examples:- Chrome, Safari, Edge.
- It is the client that communicates with the server.