

PL-3 : Practical No. 1.

To describe the components of a network

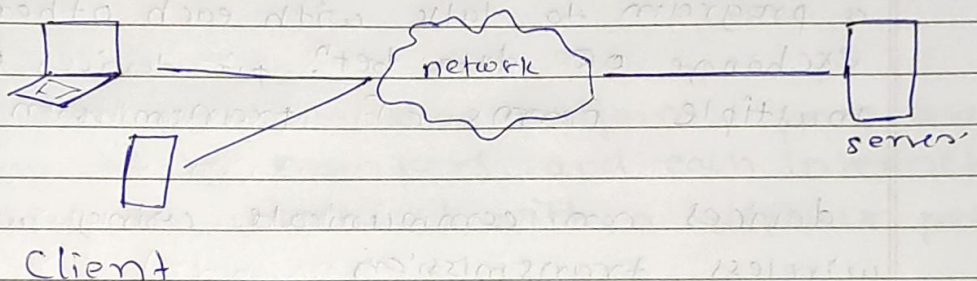
Problem statement 1.

① Client :-

Client means a computer or workstation that is capable of obtaining information and application from a server.

Also we can say client a computer hardware or software that request or accesses a service made available by a server.

Client provide a user with access to a network.



In client-server networking, client send a request to the server, and server sends a response to the client

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② Server:-

A server is a high-powered computer or a device that provides a resource that resource or functionality that can be used by any authorised client.

When client send a request to server, then server perform some actions and send back to client as response. ~~For~~ this architecture is called client-server model.

There are many types of server like web server, Email server, File server and database server etc.

③ Communication:-

It defines a set of protocol that allow a program to talk with each other or the exchange of data betⁿ two devices using one or multiple forms of transmission medium.

devices can communicate using wired or wireless transmission.

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④ protocols :-

protocols are the set of action that exchange of information is an easy and secure way.

There are various types of protocol support different devices across the network

- 1) Transmission control protocol.
- 2) Internet protocol
- 3) User Datagram protocol.
- 4) Hyper Text Transfer protocol.
- 5) Address Resolution protocol.

Working :- network protocols takes large scale process & break them down into small, specific tasks or functions.

⑤ ports :-

It is a communication endpoints. ports are designated by numbers. and each internet protocol is associated with a default port.

We use port to connect the external devices to the computer.

There are different types of port

- ① serial port : used for external modems.
- ② Parallel port : used to connect peripherals device
- ③ universal serial bus port :- It used to connect all types of external devices.
- ④ VGA port : To connect monitor to computer video cord.

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6) Network :-

Network is a system that connects two or more devices in order to share information/data and resources.

The devices on a network may be linked through cables, waves, satellites etc.

There are two types of network

(1) LAN (Local Area Network)

(2) WAN (Wide Area Network)

(1) LAN: Local Area Network.

LAN is a network that covers area of around 10-15 km.

For example:- a college network

(2) WAN: Wide Area network:-

WAN is a network that connects countries or continents.

For example: Internet across all over a distributed system (wrtw) From anywhere in the world.