Programming Laboratory - 3

Practical no. 01 : To describe components of a network.

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Name : Ganesh Shashikant Kasar.

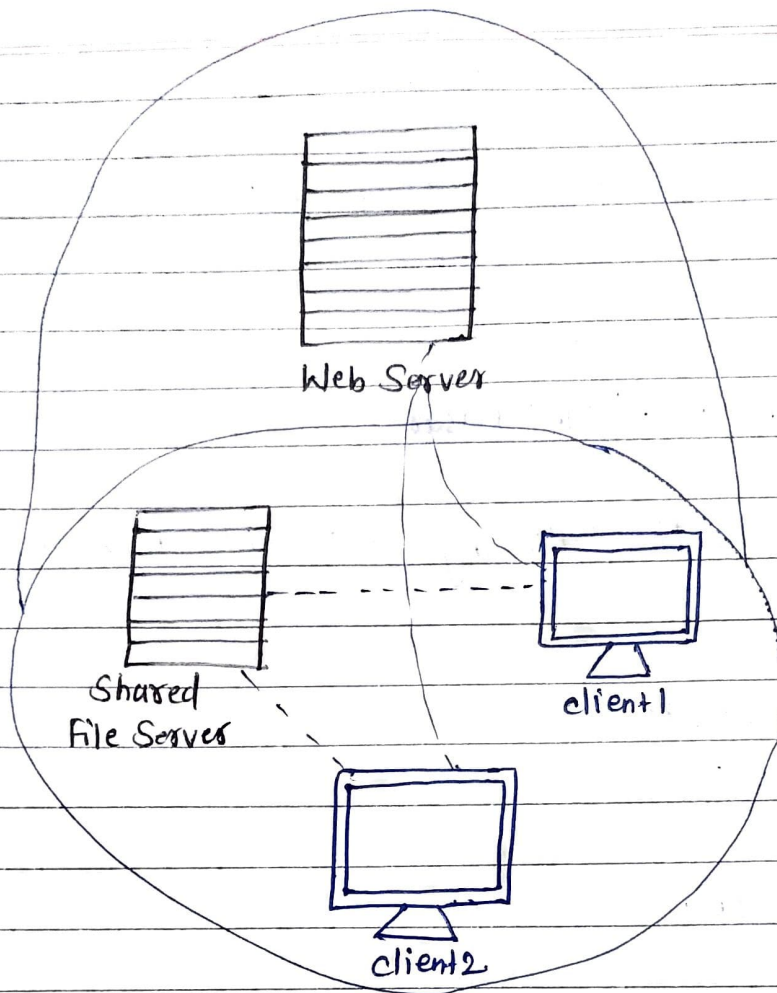**PS 01**   Study & describe the following components in your words.
  1. Client
  2. Server
  3. Communication
  4. Protocols
  5. Ports
  6. Network.

Answer

1. Client ~~&server~~

(1) A client is a computer hardware or a software that accesses the service made available by a server.

(2) A server is often located on separate physical computer.

(3) Client requests something to the server.

2. Server

(1) A server is a physical computer dedicated to run services the serve the needs of other computers.

(2) Depending upon the service that is running, it could be a file server, database server, home media server, print server or web server.

(3) Server responds to the requests made by the client.

Web Server

Shared
File Server

client1

client2

3. Communication

Communication means exchange of information between two
point of contact.
In case of computers, point of contact can be computers
or servers or any other devices.

4. Protocols

A protocol is the set of rules or algorithms which define
the way how two entites can communicate across the
networks and there exists different protocol defined
at each layer of the OSI model.
Few of such protocols are TCP, IP, UDP, ARP, DHCP,
FTP and so on.

5. Ports

A port can be referred to as a logical channel through which data can be sent/recieved to an application. Any host may have multiple applications running and each of these applications is identified using the port number on which they are running.

6. Network

An interconnection of multiple devices, also known as hosts, that are connected using multiple paths for the purpose of sending/recieving data or media. Computer Networks can also include multiple devices/ mediums which help in the communication between two different devices; these are also known as network devices.