

1) explain network application architecture

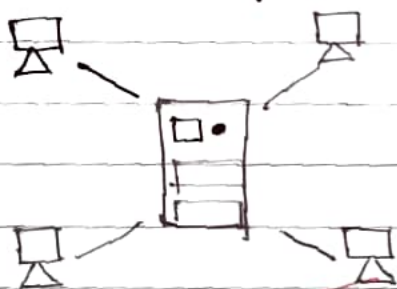
→ Network Application Architecture is defined as writing programs and running them on different end systems and communicating with each other on different end system

(i) client server architecture

(ii) p2p architecture

client server architecture

- * Here in this architecture client do not directly communicate with server
- * The client sends the request messages to the server (hosts) and hosts respond those messages by sending back the required information to the client
- * The server IP address through which clients communicate



p2p architecture

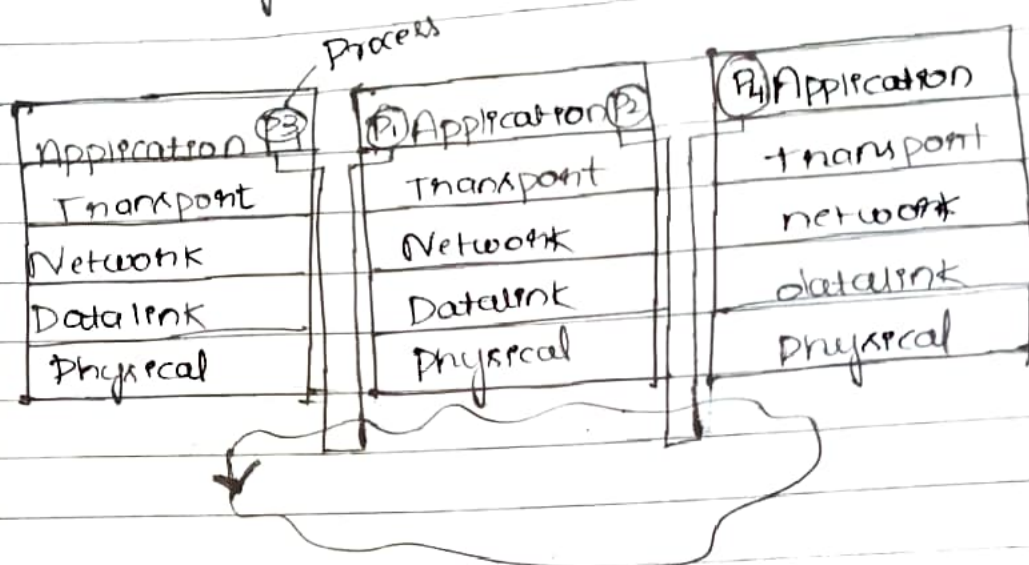
- * Here there is minimal dependent on the server by the hosts
- * hosts can directly communicate with the server
- * Data servers are not the owners to the group of clients called peers. Desktops, laptops are the responsible for owning the group of peers



Ex Telecommunications features of P2P: Self scalability & Cost effective

2. Explain transport Layer Multiplexing and demultiplexing

Soln



* Transport Layer:- There will be a logical communication between hosts to end users

* Multiplexing:- The job of multiplexing is to collect data chunks from different sockets and making a segment

* Demultiplexing:- The job of demultiplexing is to collect all the data back segment, identifying the header & sending back to proper sockets / recipients

→ During Multiplexing:- at the Transport Layer:-

* Collecting all data chunks from different sockets and making a segment

* Socket sends the message to the network layer.

→ During Demultiplexing:- at the Transport the middle host demultiplexes the segment at either p1 or p2 process and sends it to the recipient

→ Now it helps to send back the response message to proper recipient.