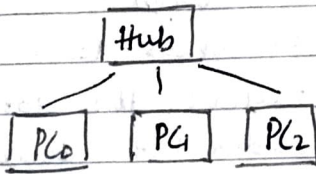


Mohammed Izzan [18M18C137].

i) Topology.



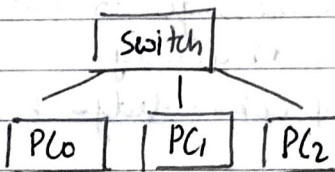
Procedure:

- 1) Place a hub & 3 end device
- 2) Use cables to connect the end device & hub.
- 3) Set an IP address for each device along with subnet mask.
- 4) Select a simple PDU & a source & destination.

Observation

Whenever a source sends data in a network, the hub receives the data from the source & sends broadcast over the network i.e. it sends data to all remaining nodes in the network & the node whose destination address matches with the data and acknowledge back and the rest of the nodes just ignore it.

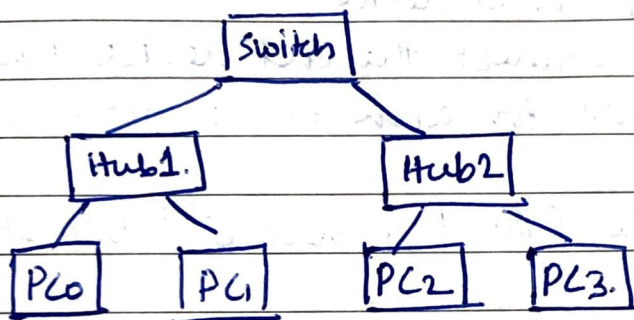
(ii) Switch



Here the procedure remains same as that of the previous one.

Observation:

Here also the end-devices are connected to the single device when a source codes sends data to the other nodes then switch receives the data & sends only to the node whose destination address match.

(III) SwitchProcedure:

- 1) Place the network devices and end devices make connection appropriately.
- 2) Sending a message from PC0 to PC2
 - (i) PC0 sends the message, Hub1 receives the messages and transmits to the PC1 & the switch PC1 rejects the message or the destination address does not match.
 - (ii) The switch transmit the message to hub2 then it sends to PC2 & PC3 simultaneously.
 - (iii) PC1 accept the message & acknowledge back and rejects the message.