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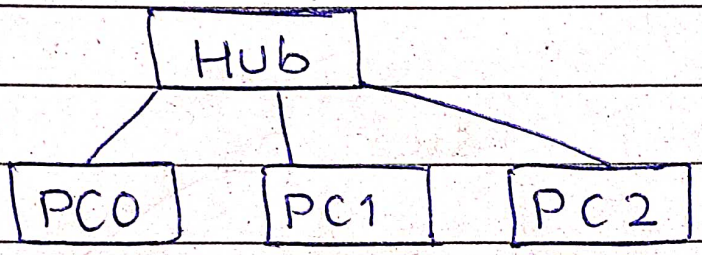
01. Program No. 1 :

i)



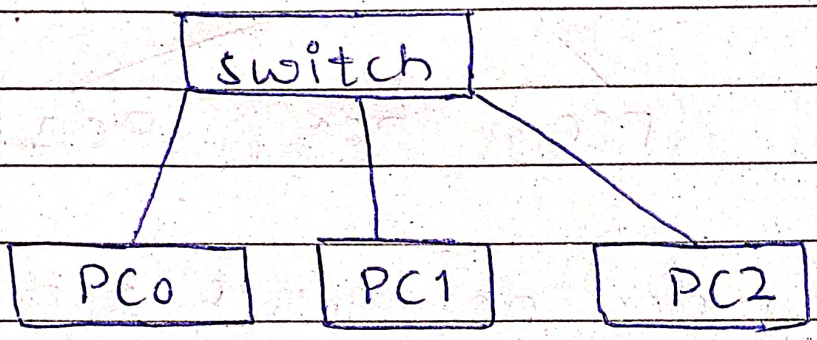
Step: 1. place one Hub & 3 End devices.
2. connect the end devices to the Hub using the cables.
3 set the IP address to each end device
4. select simple PDU & then choose the source & Destination
5 Finally Run the Simulation

- Observation:

Whenever a source node sends data in a network, the hub receives the data from the source & sends/ Broadcast over the network i.e.,

it sends data to the all remaining nodes in the network & the node whose destination address matches with the data will accept that data & Acknowledges back & the rest of the nodes just ignores that.

ii)

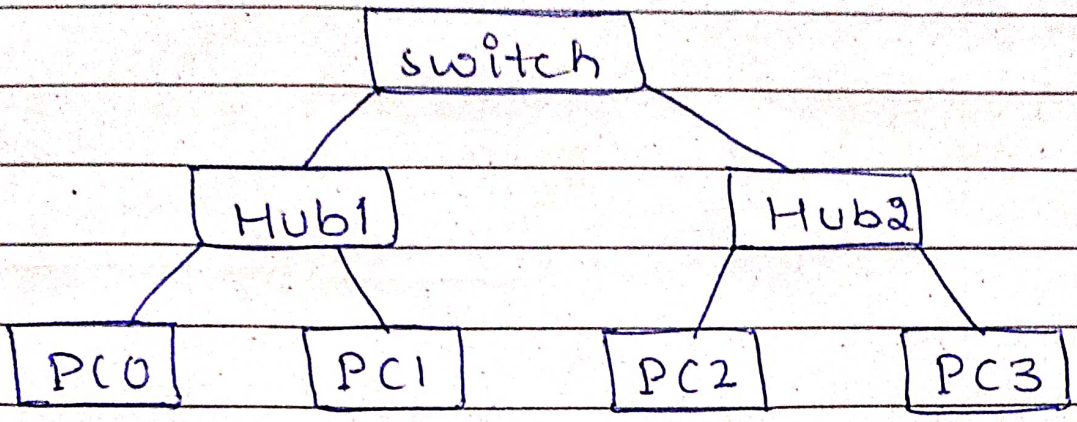


Here, the procedure remains same as that of the previous one.

- observation:

Here also the End devices are connected to the single device (switch) when a source node sends data to other node then switch receives the data & sends only to the node whose destination address match.

iii)



Steps:- place the network devices & End devices, make connection ~~appropriam~~ appropriately.

→ sending a message from PC0 to PC2.

i) PC0 sends the message, Hub1 receives the message & tranmits to the PC1 & the switch. PC1 rejects the message as the destination address does not matches.

ii) Then switch transmits the message to the Hub2, then Hub2 sends to the PC2 & PC3 simultaneously.

iii) PC2 Accept the message & acknowledges back & PC4 rejects the message.