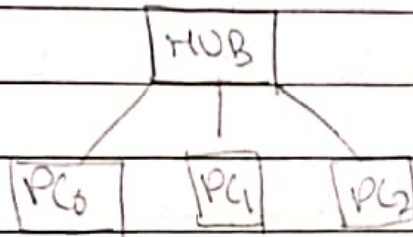


## EXP-1

- Q. Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices

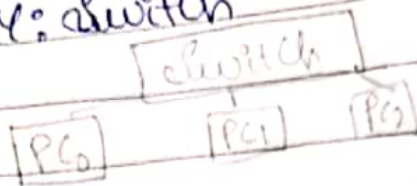
### (i) TOPOLOGY: Hub



- PROCEDURE:
- 1) Place 1 hub and 3 end devices
  - 2) Connect the end devices to the hub using cables
  - 3) Set an IP address for each device along with the subnet mask
  - 4) Select a simple PDU and select a source and destination

OBSERVATION: Whenever a source node sends data in a network the data is passed from hub to the receiver

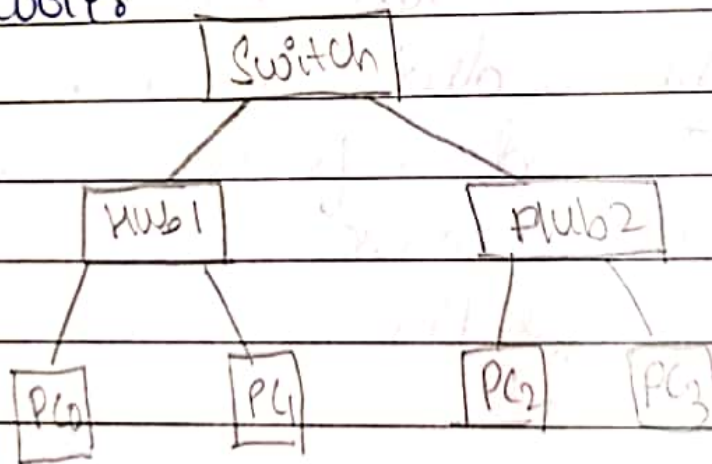
(ii) TOPOLOGY: Switch



Follow procedure as previous one

OBSERVATION: Here also the end devices are connected to the switch when a source node sends data to other node then switch receives the data and sends only to the node whose destination address match

(iii) TOPOLOGY:



PROCEDURE: 1) Place the network devices and end devices make connections appropriately  
2) Sending a message from PC0 to PC2  
3) PC0 sends



OBSERVATION: (1) PC<sub>0</sub> sends the message, Hub<sub>1</sub> receives the message and transmits to the PC<sub>1</sub> and the switch PC<sub>1</sub> rejects the message as the destination address does not match.

2) The switch transmits the message to the hub<sub>2</sub> than hub<sub>2</sub> sends to the PC<sub>2</sub> and PC<sub>3</sub> simultaneously.

3) PC<sub>2</sub> accepts the message and acknowledges back and PC<sub>3</sub> rejects the message.