

7/11/22

Experiment: 1

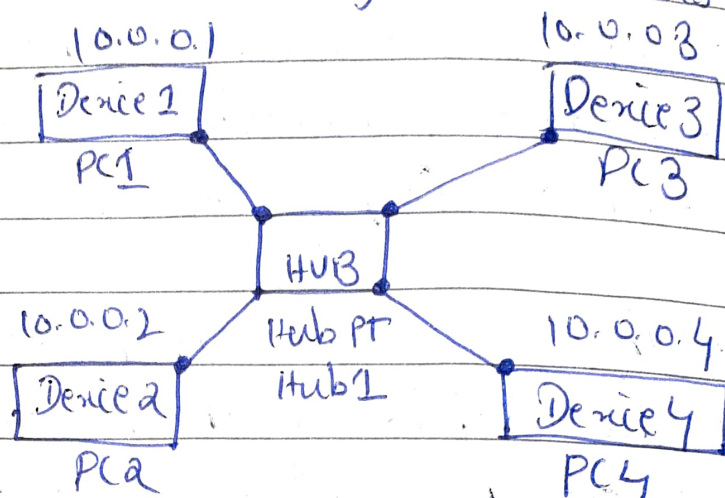
Aim:-

Q. Create a topology consisting of two or more devices using hub.

Procedure:

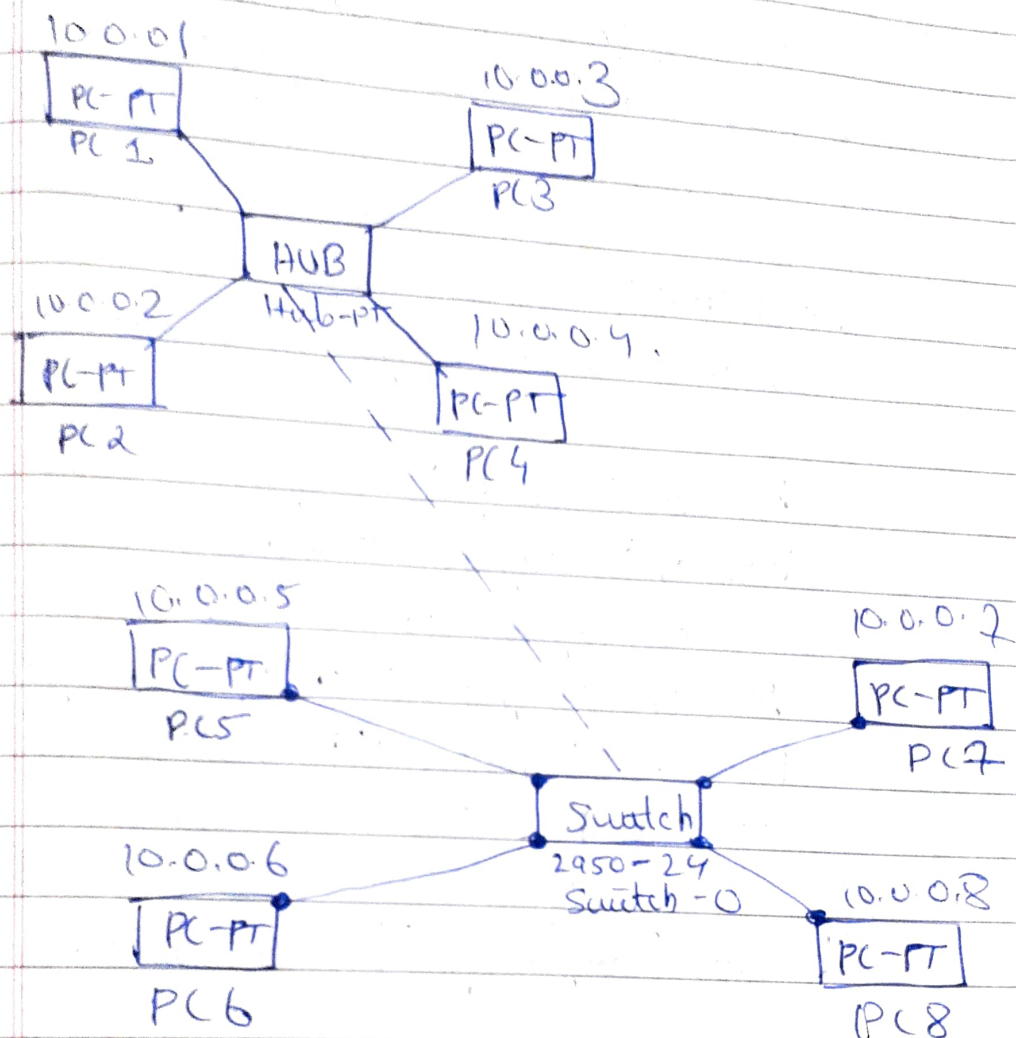
Ans:

Case 1: Connecting All devices to 1 HUB



- * HUB is a dumb device i.e. it is not intelligent. So whatever data is sent from a sender to hub then the hub broadcasts the data to the rest of the devices.
- * Time it takes to send from sender to receiver is about 0.002 seconds.
- * A default type connection is used.
- * Device and Hub is connected using a copper straight through cable.
- * It will broadcast even to devices which do not require the data.

Outcome:
Case 2: This a topology where Hub's and switch is connected to 'n' devices and intern the switch and Hub is connected.



- * Connections between the PC and the HUB or the switch is done using copper straight through.
- * Connection between switch and HUB is used done using copper cross-over cable.
- * Here the data packet is sent only to the intended device. From the sender and not to any other device can be blocked with CMD.