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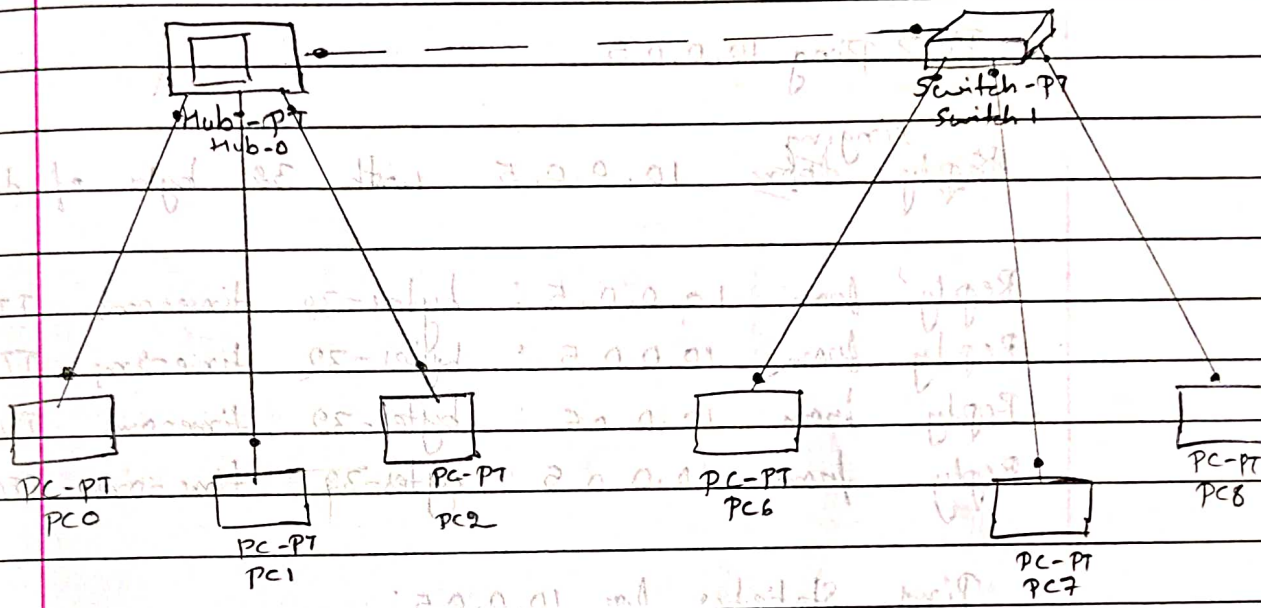
Aim:

Create a topology and simulate sending a simple PDU from source to destination using hub and Switch as connecting devices and demonstrate ping message.



Procedure:

→ Connect 3 or more PC's and connect it to different ports of the hub

→ Also connect 2 or more PC's to Switch.

→ Click on each PC, select desktop and then select IP configuration. Write down the IP address and the subnet mask of that PC.

→ To see the process of how packets are transferred, give simple PDU ~~to both PCs~~ between 2 PC's and then run simulation.

→ To check whether the connection is successful or not, ping destination PC from Source PC. For this click on source PC0, then select Desktop and then go to command prompt.

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⇒ Write in command prompt window, "ping" followed by the IP address given to destination PC. The packets sent, received and lost will be shown.

Observation:

PC> Ping 10.0.0.5

Pinging
Reply ~~from~~ 10.0.0.5 with 32 bytes of data:

Reply from 10.0.0.5 : bytes=32 time=0ms TTL=128
Reply from 10.0.0.5 : bytes=32 time=2ms TTL=128
Reply from 10.0.0.5 : bytes=32 time=0ms TTL=128
Reply from 10.0.0.5 : bytes=32 time=0ms TTL=128

Ping Statistics for 10.0.0.5:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms.

Switch:

	Ip address	
Port-0		
Fast ethernet 0	10.0.0.1	PC-1
port-1		
Fast ethernet 0	10.0.0.2	PC-2
port-2		
Fast ethernet-0	10.0.0.3	PC-3.

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Conclusion :

We connected pc's through a Cisco-Switch and verified the packet transfer by pinging pc

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