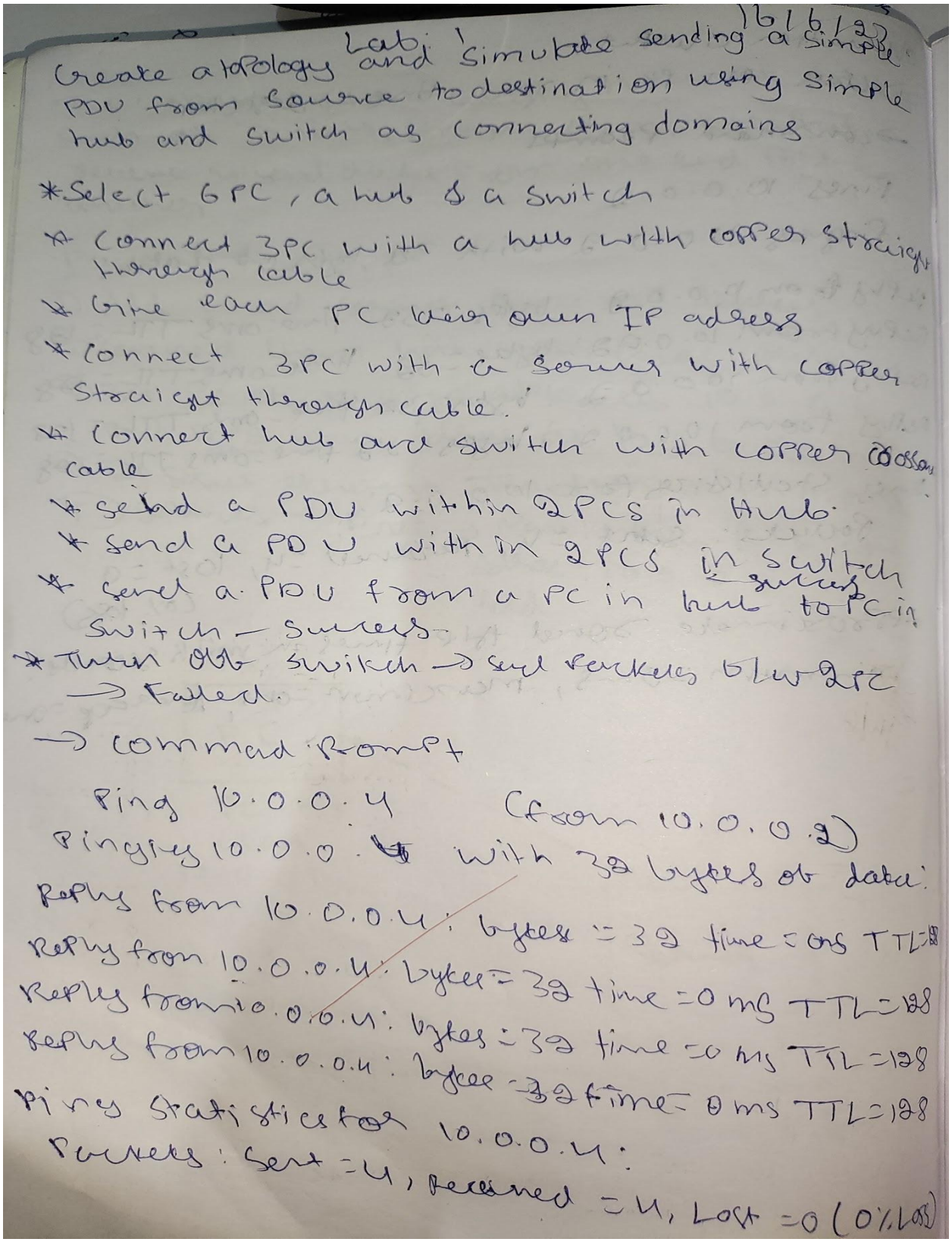
Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.



Lab 1 16/6/22

Create a topology and simulate sending a simple PDU from source to destination using simple hub and switch as connecting domains

* Select 6 PC, a hub & a switch
* Connect 3PC with a hub with copper straight through cable
* Give each PC their own IP adress
* Connect 3PC with a Server with copper Straight through cable.
* Connect hub and switch with copper cross cable
* Send a PDU within 2PCs in Hub.
* Send a PDU within 2PCs in switch — success
* Send a PDU from a PC in hub to PC in switch — success
* Turn off switch → send packets b/w 2PC → Failed.

→ command Prompt

Ping 10.0.0.4 (from 10.0.0.2)

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes = 32 time = 0ms TTL = 128

Reply from 10.0.0.4: bytes = 32 time = 0 ms TTL = 128

Reply from 10.0.0.4: bytes = 32 time = 0 ms TTL = 128

Reply from 10.0.0.4: bytes = 32 time = 0 ms TTL = 128

Ping Statistics for 10.0.0.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% Loss)

Through Switch

Ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Request time out

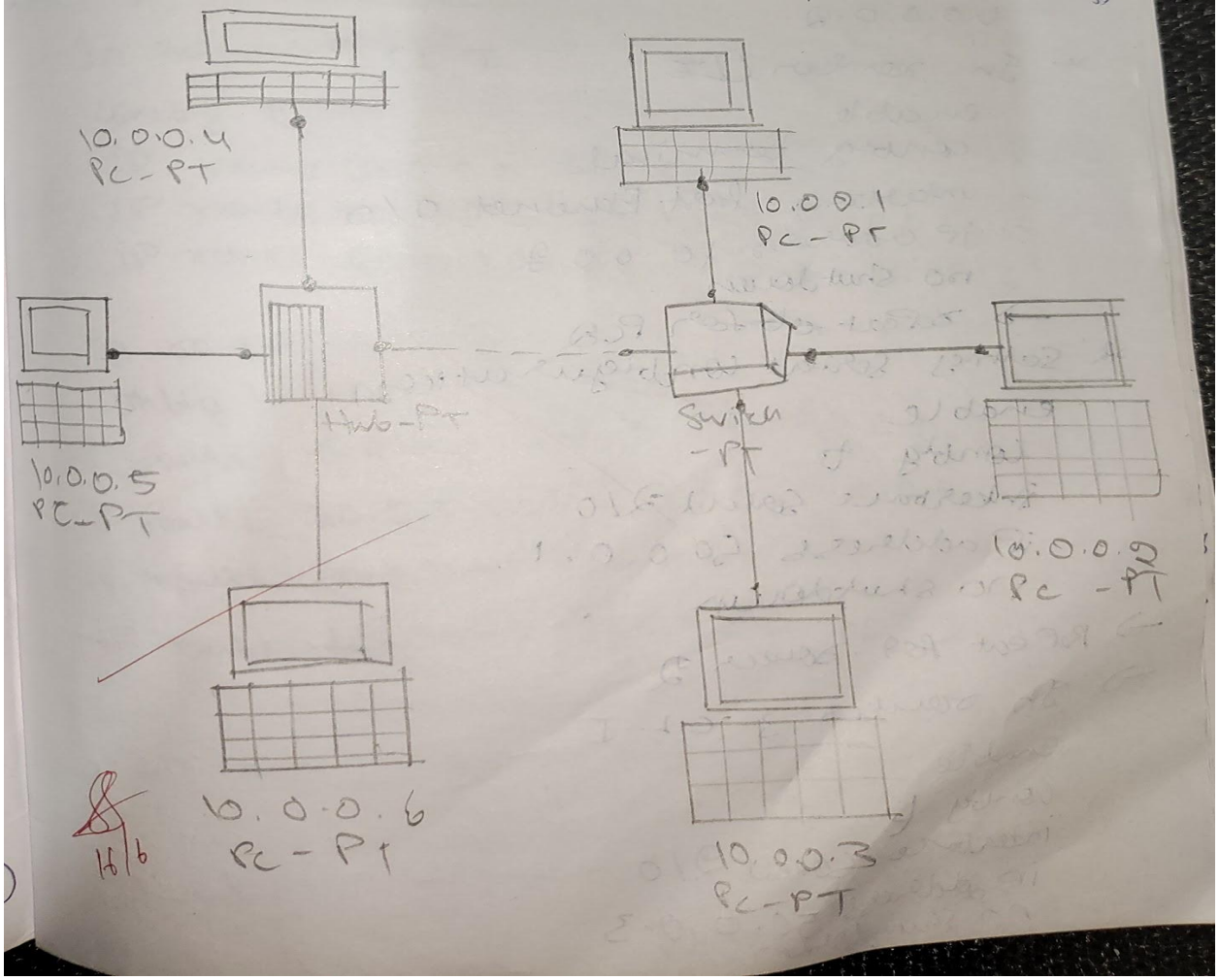
Request time out

Request time out

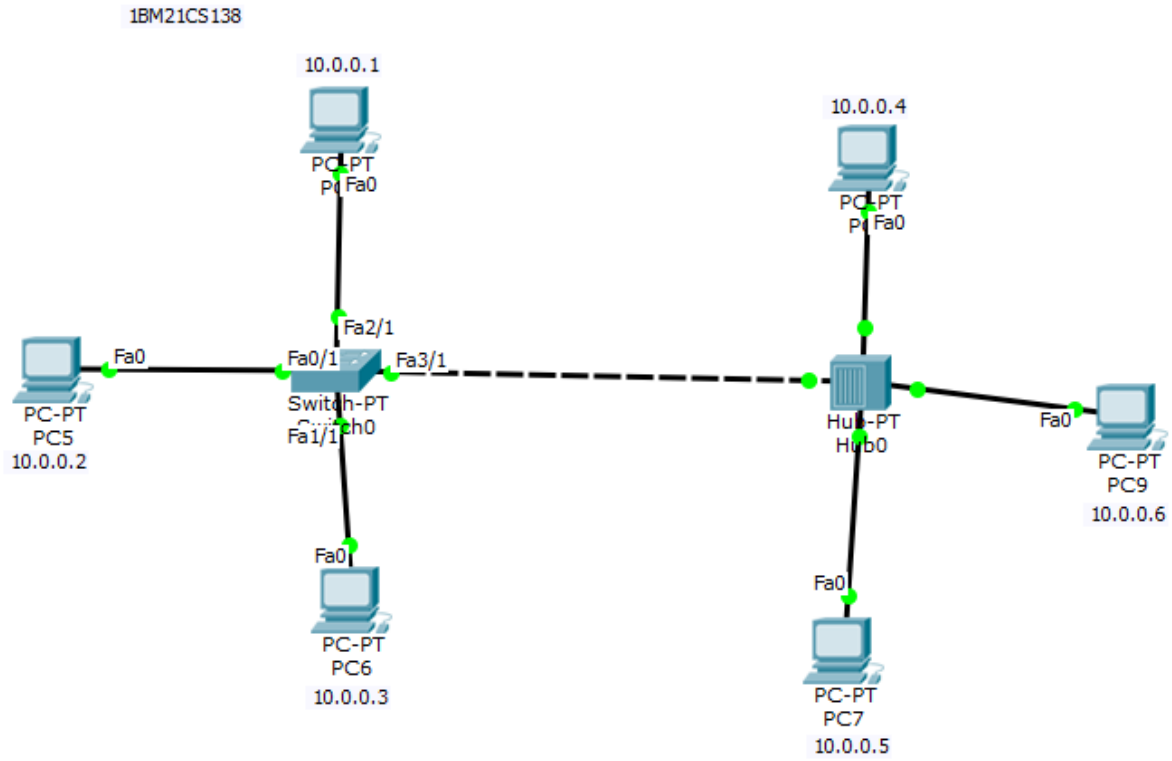
Request time out

Ping Statistics for 10.0.0.4:

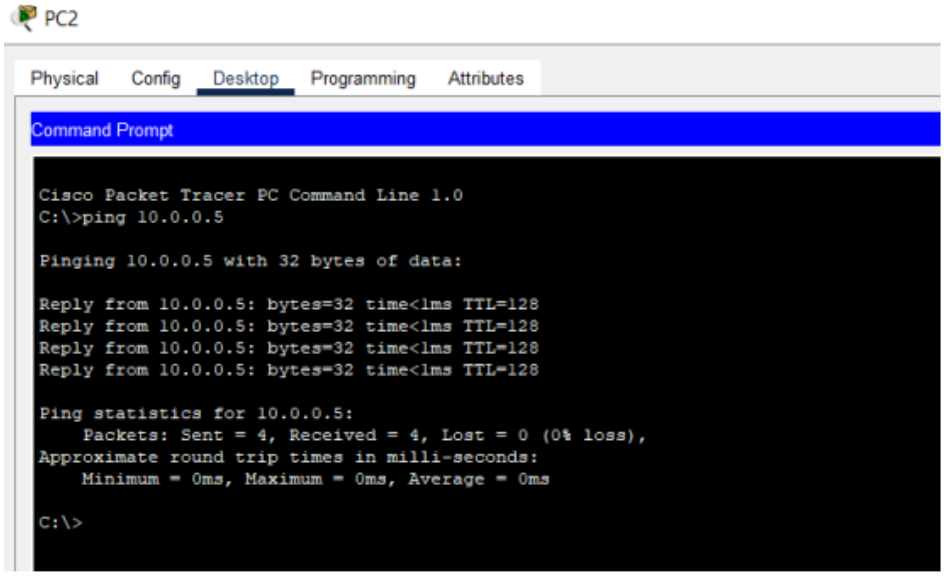
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)



Topology:


1BM21CS138
10.0.0.1
PC-PT
Fa0
10.0.0.4
PC-PT
Fa0
Fa2/1
Fa0
Fa0/1
Fa3/1
PC-PT
PC5
10.0.0.2
Switch-PT
Fa1/1
Hub-PT
Hub0
Fa0
PC-PT
PC9
10.0.0.6
Fa0
PC-PT
PC6
10.0.0.3
Fa0
PC-PT
PC7
10.0.0.5

Output:


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.5
Pinging 10.0.0.5 with 32 bytes of data:
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms 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 = 0ms, Average = 0ms
C:\>