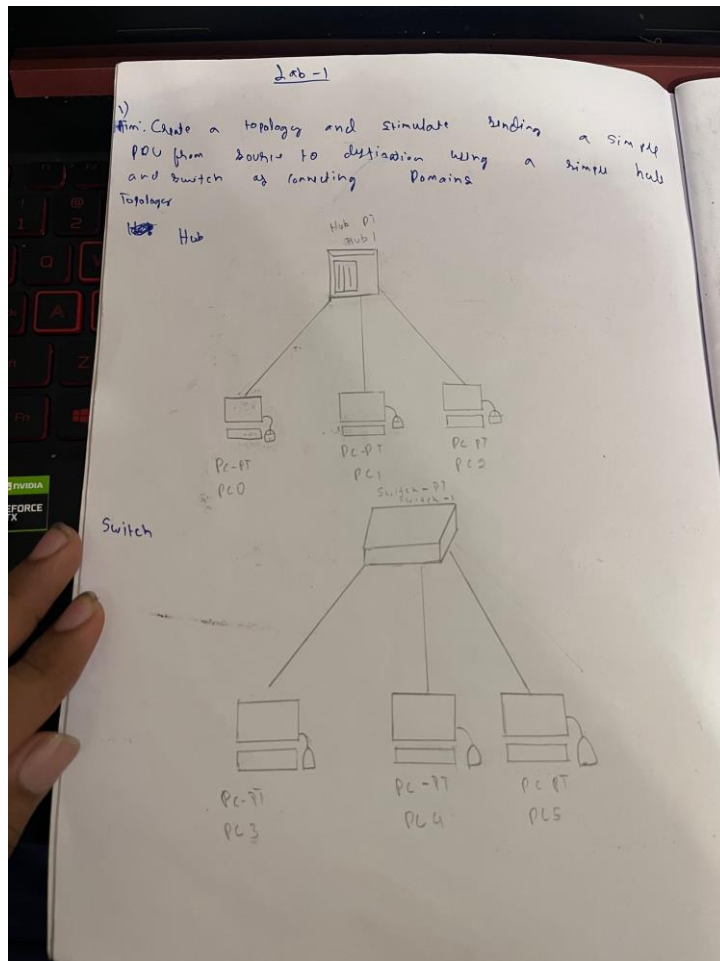
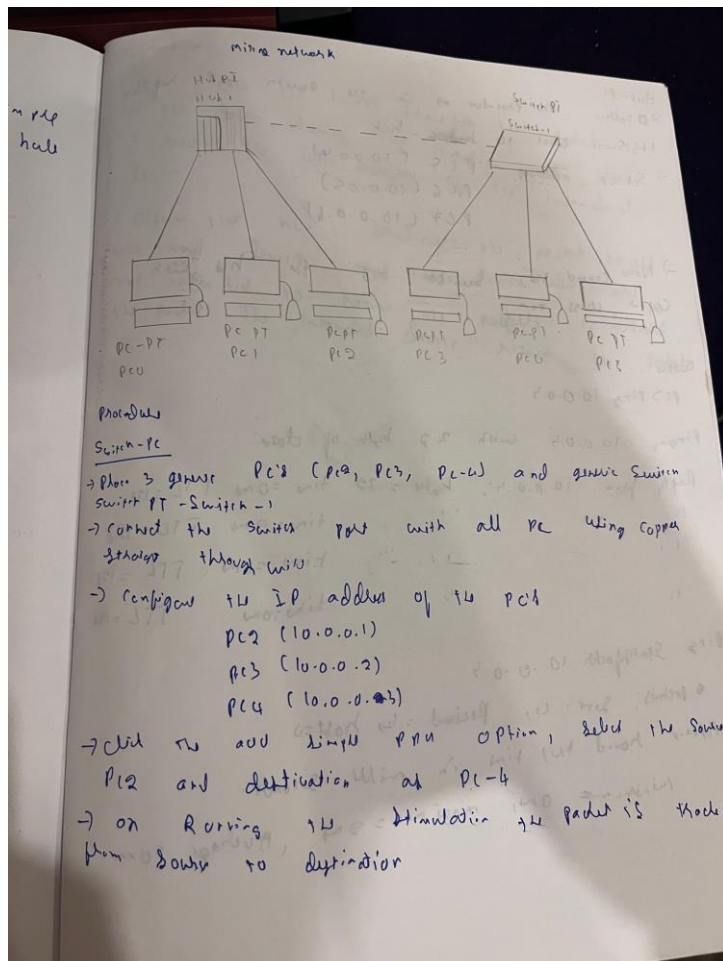


WEEK 1

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

OBSERVATION :





Hub-PC
→ Follow the procedure as in the switch - PC setup

the switch with the ~~host~~ - hub
→ Set IP address
PC5 (10.0.0.4)
PC6 (10.0.0.5)
PC7 (10.0.0.6)

→ Now connect the switch and the hub with
copper cross over

Steps:

PC > Ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
" " " " " " time=2ms TTL=128
" " " " " " time=0ms TTL=128
" " " " " " time=0ms TTL=128

Ping Statistics for 10.0.0.3

Packet: Sent = 4, Received = 4, Lost = 0

Approximate round trip time in milliseconds:

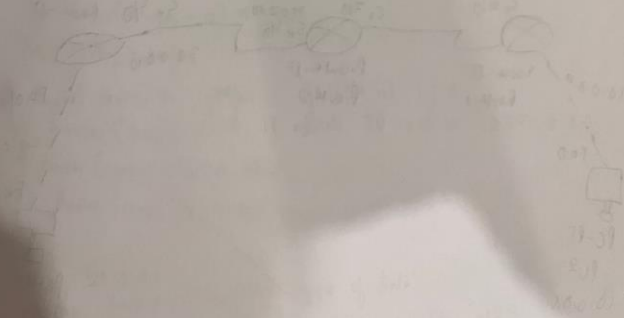
Minimum = 0ms, Maximum = 2ms, Average = 0ms

Observation

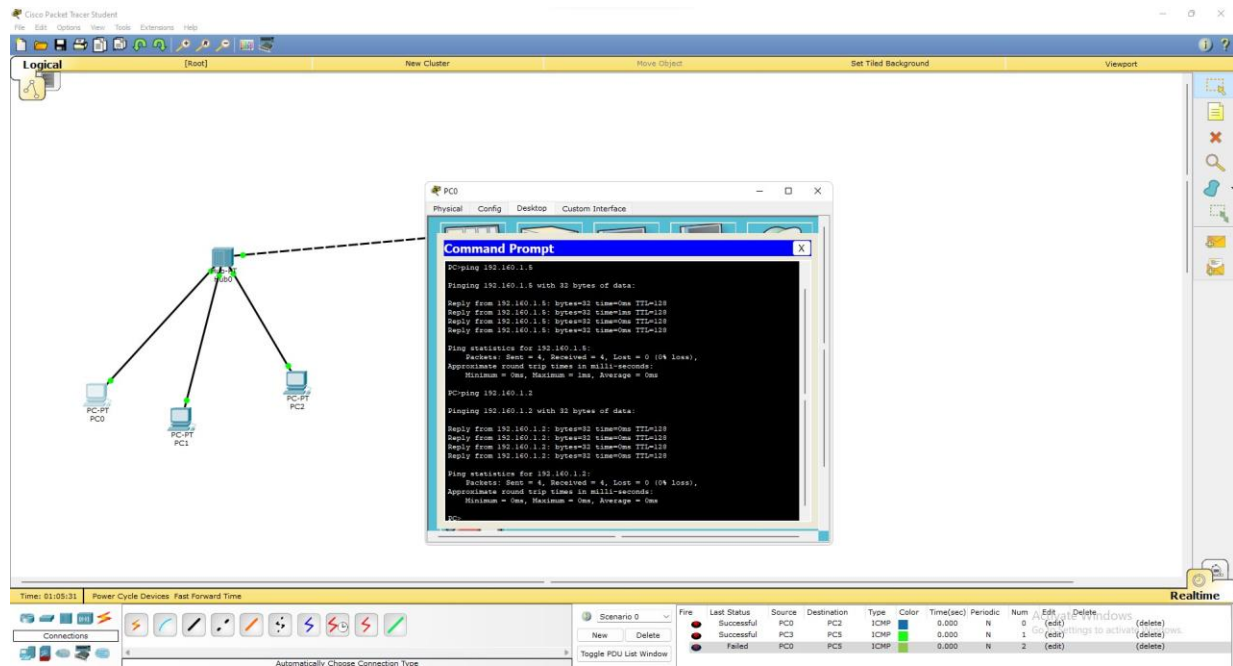
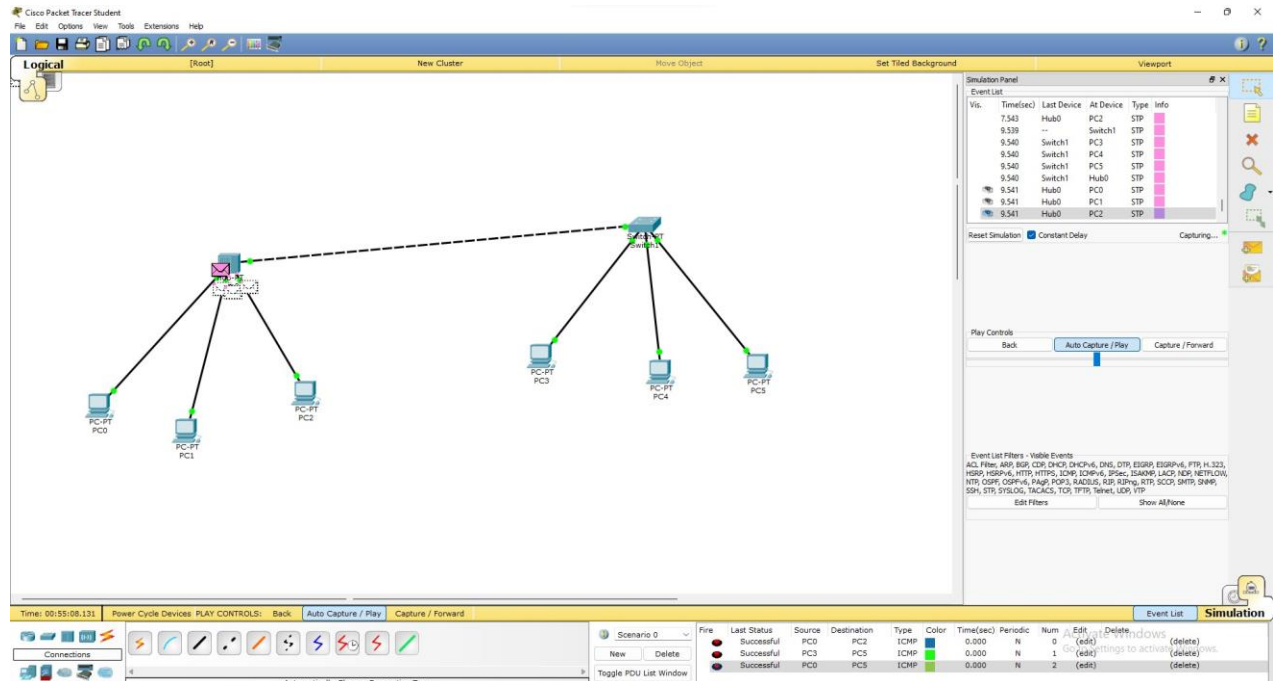
i) When the source transmits the packet to all the devices during the situation and then it knows the IP address of the intended device.

ii) When the hub broadcasts the packet to all the end devices and the device which are not intended to receive the packets. The intended device receives the packet. The packets are discarded.

NA
15/6/2022



OUTPUT:



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

```
graph TD
    R1[Router] --- PC1[PC1]
    R1 --- PC2[PC2]
    R1 --- PC3[PC3]
```

PC3

Physical Config Desktop Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
PC>
```

Time: 01:07:03 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

New Delete

Toggle PDU List Window

Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Act	Delete
Successful	PC3	PC2	ICMP	Blue	0.000	N	0	(edit)	(delete)
Successful	PC3	PC5	ICMP	Green	0.000	N	1	(edit)	(delete)
Failed	PC3	PC5	ICMP	Red	0.000	N	2	(edit)	(delete)

Realtime