LAB # 01

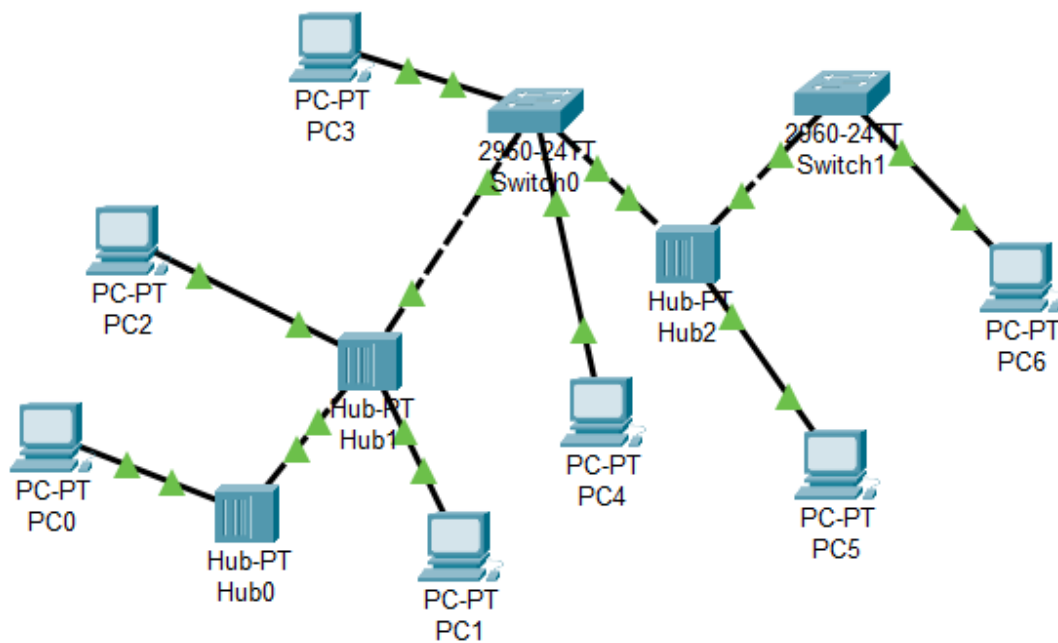**TASK 1:** Implement the network on packet tracer. and Ping,

(i)   PC0 from PC5,

(ii) PC6 from PC2,

(iii) PC3 from PC1,

Also, display the results in the simulation mode of packet tracer. Attach snapshots of the pinging results and the network created.

SOLUTION :

End Device	IP Used
PC0	172.16.1.1
PC1	172.16.1.2
PC2	172.16.1.3
PC3	172.16.1.4
PC4	172.16.1.5
PC5	172.16.1.6
PC6	172.16.1.7

OUTPUT :

1) ping PC0 –> PC5

```
C:\>ping 172.16.1.6

Pinging 172.16.1.6 with 32 bytes of data:

Reply from 172.16.1.6: bytes=32 time<1ms TTL=128
Reply from 172.16.1.6: bytes=32 time<1ms TTL=128
Reply from 172.16.1.6: bytes=32 time<1ms TTL=128
Reply from 172.16.1.6: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.000	--
	0.001	PC0
	0.002	Hub0
	0.003	Hub1
	0.003	Hub1
	0.003	Hub1
	0.004	Switch0
	0.004	Switch0
	0.004	Switch0
	0.005	Hub2
	0.005	Hub2
	0.006	PC5

2) ping PC6 –> PC2

```
C:\>PING 172.16.1.3

Pinging 172.16.1.3 with 32 bytes of data:

Reply from 172.16.1.3: bytes=32 time=20ms TTL=128
Reply from 172.16.1.3: bytes=32 time=10ms TTL=128
Reply from 172.16.1.3: bytes=32 time=10ms TTL=128
Reply from 172.16.1.3: bytes=32 time=10ms TTL=128

Ping statistics for 172.16.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 20ms, Average = 12ms
```

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.001	PC6
	0.002	Switch1
	0.003	Hub2
	0.003	Hub2
	0.004	Switch0
	0.004	Switch0
	0.004	Switch0
	0.005	Hub1
	0.005	Hub1
	0.005	Hub1
	0.006	Hub0
	0.006	PC2

3) ping PC3 –> PC1

```
C:\>ping 172.16.1.2

Pinging 172.16.1.2 with 32 bytes of data:

Reply from 172.16.1.2: bytes=32 time=13ms TTL=128
Reply from 172.16.1.2: bytes=32 time=6ms TTL=128
Reply from 172.16.1.2: bytes=32 time=6ms TTL=128
Reply from 172.16.1.2: bytes=32 time=6ms TTL=128

Ping statistics for 172.16.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 13ms, Average = 7ms
```

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.008	PC3
	0.009	Switch0
	0.010	Hub1
	0.010	Hub1
	0.010	Hub1
	0.011	Hub0
	0.011	PC1