

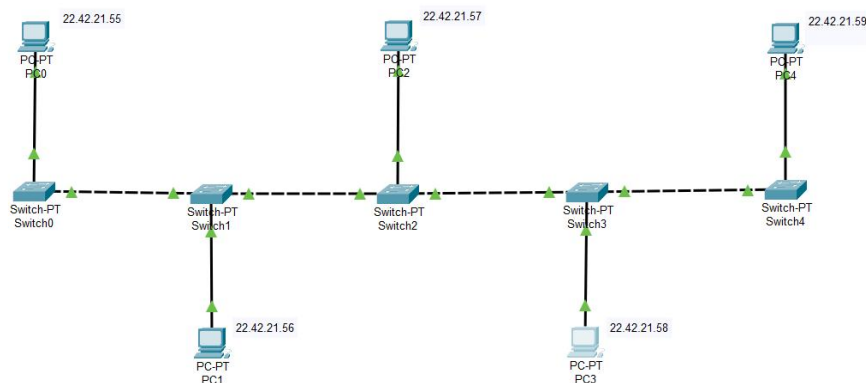
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## Assignment – 2

(Q) Build a simple LAN using 5 packets. Implement each topology separately and show the packet transmission statistics using cisco packet tracer.

i. Bus Topology:

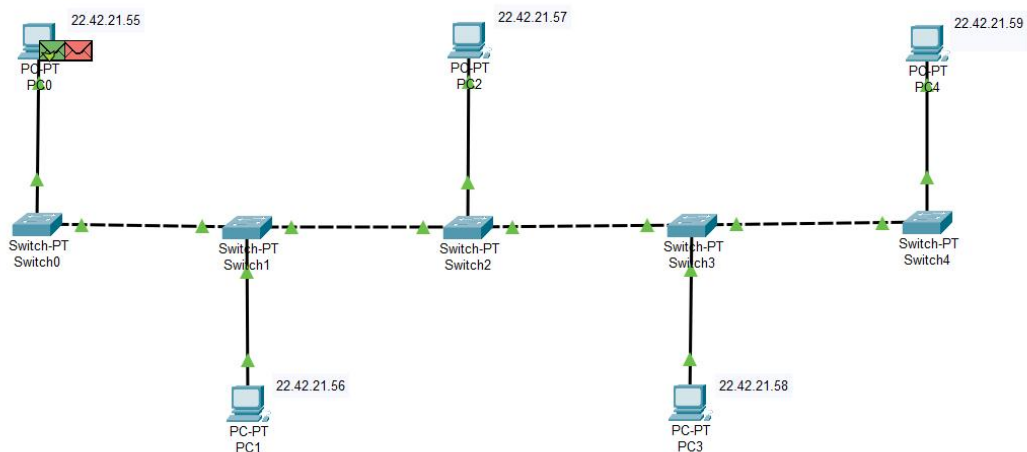


```
C:\> ping 22.42.21.56

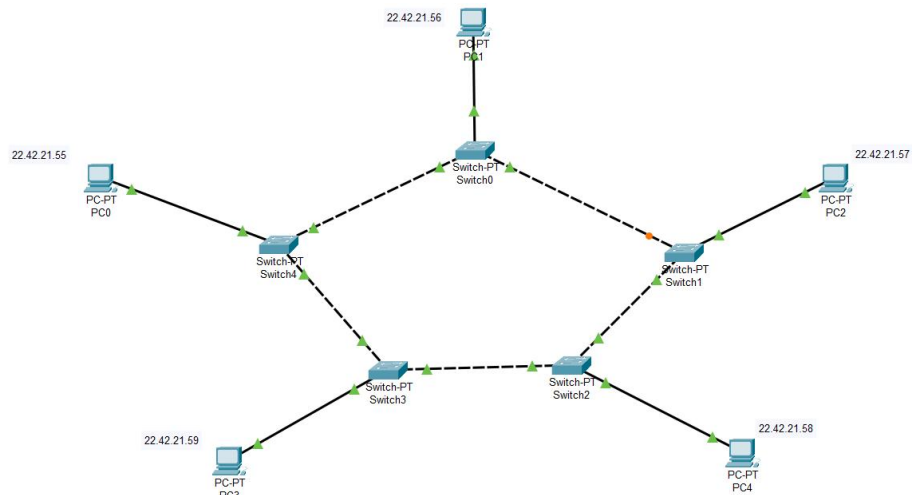
Pinging 22.42.21.56 with 32 bytes of data:

Reply from 22.42.21.56: bytes=32 time=9ms TTL=128
Reply from 22.42.21.56: bytes=32 time=6ms TTL=128
Reply from 22.42.21.56: bytes=32 time=6ms TTL=128
Reply from 22.42.21.56: bytes=32 time=6ms TTL=128

Ping statistics for 22.42.21.56:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 6ms, Maximum = 9ms, Average = 6ms
```



ii) ring topology:

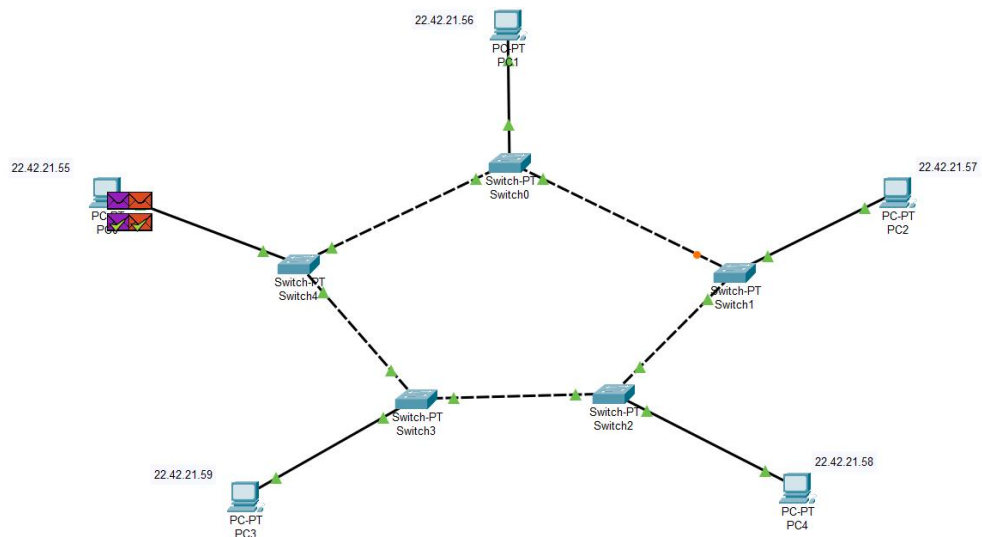


```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.42.21.58

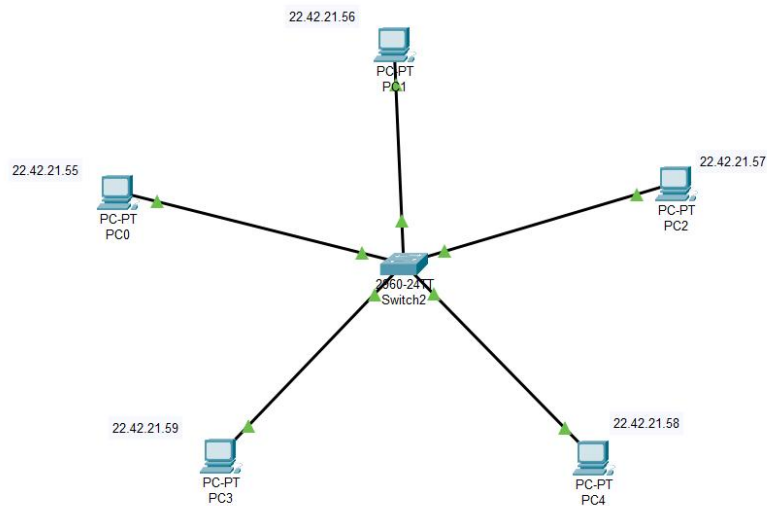
Pinging 22.42.21.58 with 32 bytes of data:

Reply from 22.42.21.58: bytes=32 time<1ms TTL=128
Reply from 22.42.21.58: bytes=32 time<1ms TTL=128
Reply from 22.42.21.58: bytes=32 time<1ms TTL=128
Reply from 22.42.21.58: bytes=32 time<1ms TTL=128

Ping statistics for 22.42.21.58:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```



iii star topology:

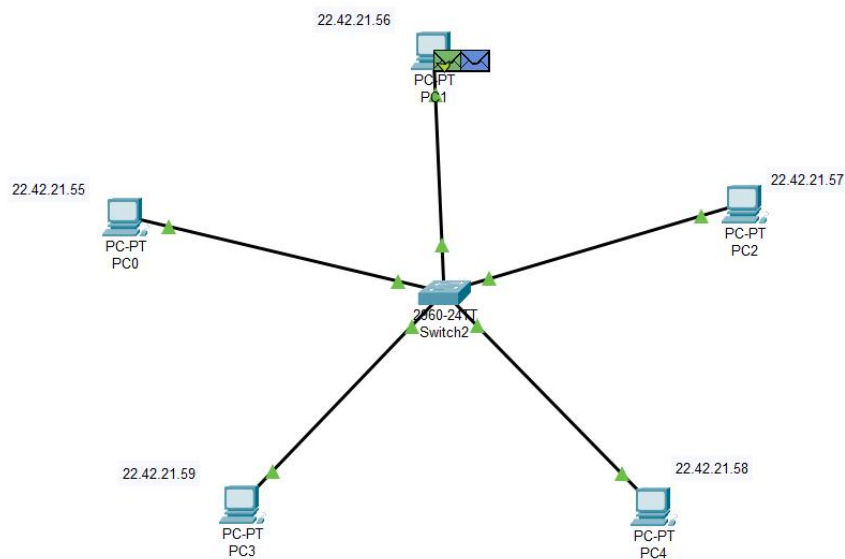


```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.42.21.58

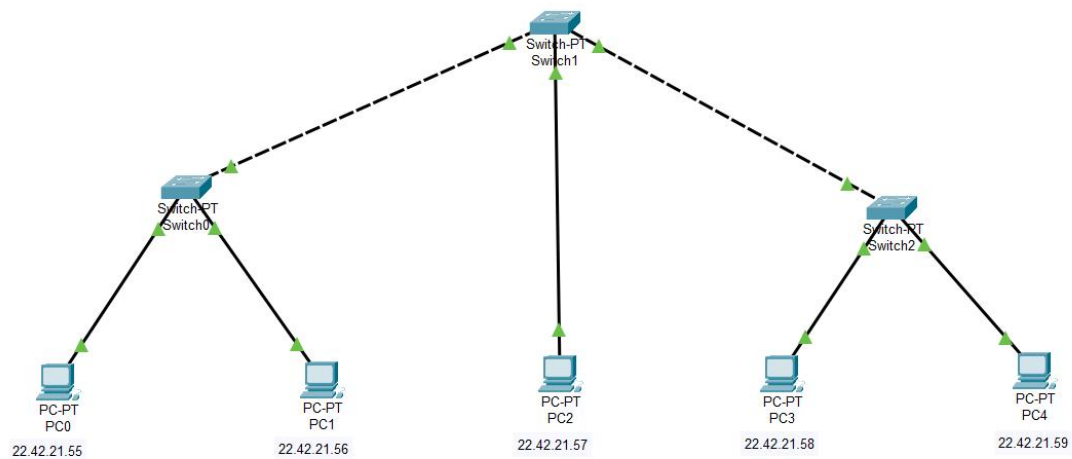
Pinging 22.42.21.58 with 32 bytes of data:

Reply from 22.42.21.58: bytes=32 time<1ms TTL=128
Reply from 22.42.21.58: bytes=32 time<1ms TTL=128
Reply from 22.42.21.58: bytes=32 time<1ms TTL=128
Reply from 22.42.21.58: bytes=32 time<1ms TTL=128

Ping statistics for 22.42.21.58:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```



iv) Tree / Hierarchical Topology:

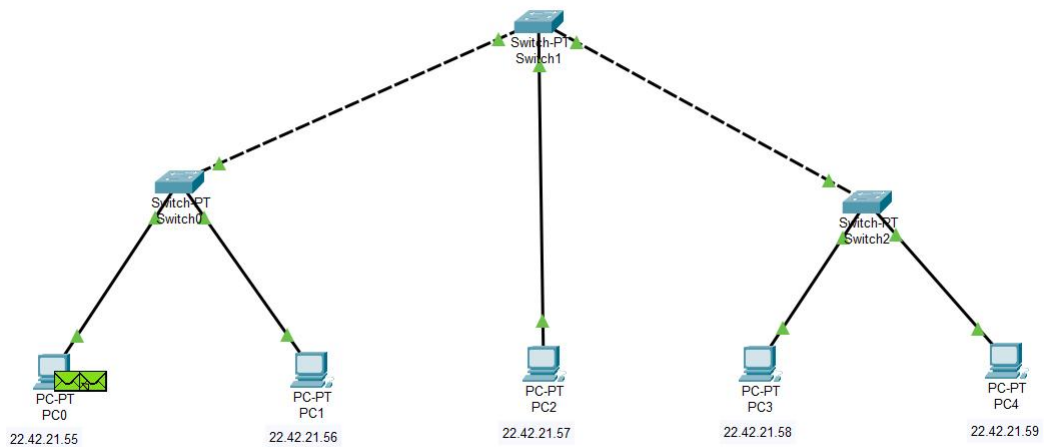


```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.42.21.55

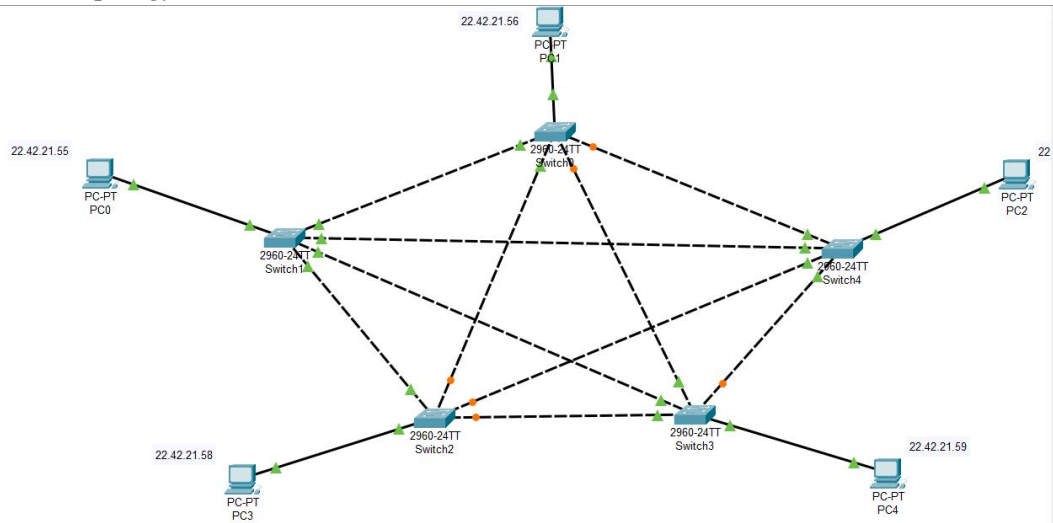
Pinging 22.42.21.55 with 32 bytes of data:

Reply from 22.42.21.55: bytes=32 time=3ms TTL=128
Reply from 22.42.21.55: bytes=32 time=4ms TTL=128
Reply from 22.42.21.55: bytes=32 time=3ms TTL=128
Reply from 22.42.21.55: bytes=32 time=4ms TTL=128

Ping statistics for 22.42.21.55:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 4ms, Average = 3ms
```



## V) Mesh Topology:



```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.42.21.55

Pinging 22.42.21.55 with 32 bytes of data:

Reply from 22.42.21.55: bytes=32 time<1ms TTL=128
Reply from 22.42.21.55: bytes=32 time=2ms TTL=128
Reply from 22.42.21.55: bytes=32 time=3ms TTL=128
Reply from 22.42.21.55: bytes=32 time<1ms TTL=128

Ping statistics for 22.42.21.55:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 1ms

C:\>

```

