19ECE311 - Computer Networks

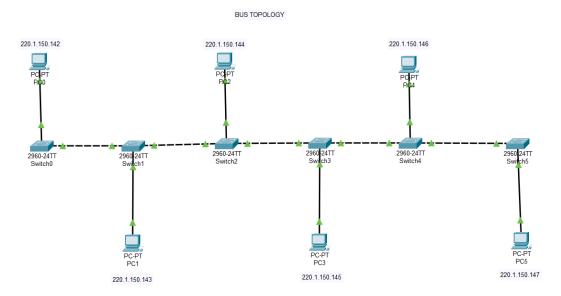
ASSIGNMENT-2

Name: A M Nakul

Roll No: AM.EN.U4ECE22001 Submission Date: 28/04/2025

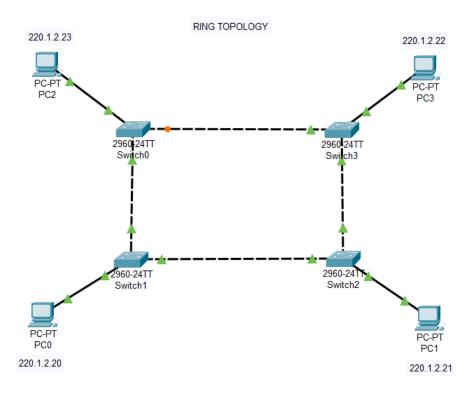
1. Create all the topologies discussed in class in Cisco Packet Tracer (CPT).

BUS TOPOLOGY



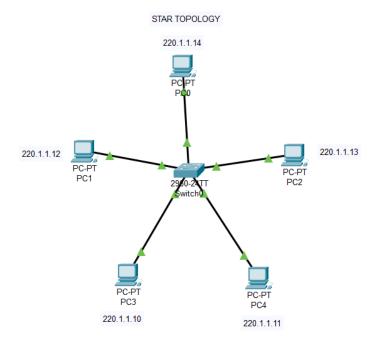
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.1.150.147
Pinging 220.1.150.147 with 32 bytes of data:
Reply from 220.1.150.147: bytes=32 time<1ms TTL=128
Reply from 220.1.150.147: bytes=32 time=1ms TTL=128
Reply from 220.1.150.147: bytes=32 time<1ms TTL=128
Reply from 220.1.150.147: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.150.147:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 220.1.150.144
Pinging 220.1.150.144 with 32 bytes of data:
Reply from 220.1.150.144: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.150.144:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

RING TOPOLOGY



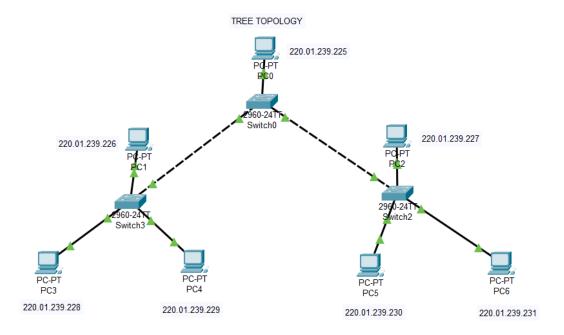
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.1.2.21
Pinging 220.1.2.21 with 32 bytes of data:
Reply from 220.1.2.21: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.2.21:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 220.1.2.22
Pinging 220.1.2.22 with 32 bytes of data:
Reply from 220.1.2.22: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.2.22:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

STAR TOPOLOGY



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.1.1.13
Pinging 220.1.1.13 with 32 bytes of data:
Reply from 220.1.1.13: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.1.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms
C:\>ping 220.1.1.14
Pinging 220.1.1.14 with 32 bytes of data:
Reply from 220.1.1.14: bytes=32 time=11ms TTL=128
Reply from 220.1.1.14: bytes=32 time<1ms TTL=128
Reply from 220.1.1.14: bytes=32 time<1ms TTL=128
Reply from 220.1.1.14: bytes=32 time=1ms TTL=128
Ping statistics for 220.1.1.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 11ms, Average = 3ms
```

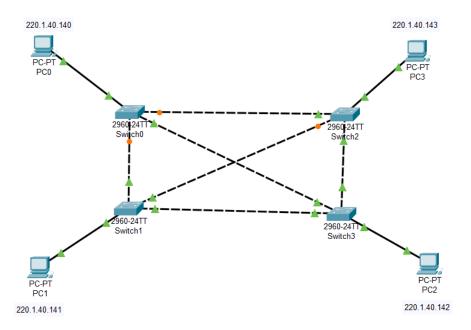
TREE TOPOLOGY



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.1.239.229
Pinging 220.1.239.229 with 32 bytes of data:
Reply from 220.1.239.229: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.239.229:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 220.1.239.231
Pinging 220.1.239.231 with 32 bytes of data:
Reply from 220.1.239.231: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.239.231:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

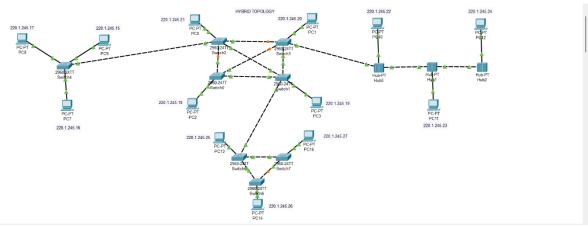
MESH TOPOLOGY

MESH TOPOLOGY



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.1.40.142
Pinging 220.1.40.142 with 32 bytes of data:
Request timed out.
Reply from 220.1.40.142: bytes=32 time<1ms TTL=128
Reply from 220.1.40.142: bytes=32 time<1ms TTL=128
Reply from 220.1.40.142: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.40.142:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 220.1.40.143
Pinging 220.1.40.143 with 32 bytes of data:
Reply from 220.1.40.143: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.40.143:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

HYBRID TOPOLOGY



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.1.245.23
Pinging 220.1.245.23 with 32 bytes of data:
Request timed out.
Reply from 220.1.245.23: bytes=32 time=3ms TTL=128
Reply from 220.1.245.23: bytes=32 time=10ms TTL=128
Reply from 220.1.245.23: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.245.23:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 10ms, Average = 4ms
C:\>ping 220.1.245.26
Pinging 220.1.245.26 with 32 bytes of data:
Reply from 220.1.245.26: bytes=32 time=8ms TTL=128
Reply from 220.1.245.26: bytes=32 time<1ms TTL=128
Reply from 220.1.245.26: bytes=32 time=6ms TTL=128
Reply from 220.1.245.26: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.245.26:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 8ms, Average = 3ms
C:\>ping 220.1.245.20
Pinging 220.1.245.20 with 32 bytes of data:
Reply from 220.1.245.20: bytes=32 time=1ms TTL=128
Reply from 220.1.245.20: bytes=32 time<1ms TTL=128
Reply from 220.1.245.20: bytes=32 time=6ms TTL=128
Reply from 220.1.245.20: bytes=32 time<1ms TTL=128
Ping statistics for 220.1.245.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 6ms, Average = 1ms
```