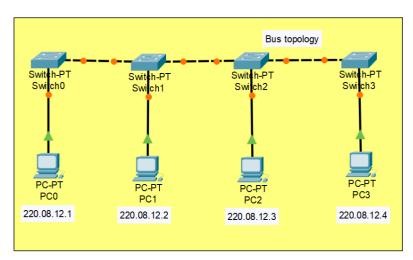
Name: ANAND MAHADEVAN

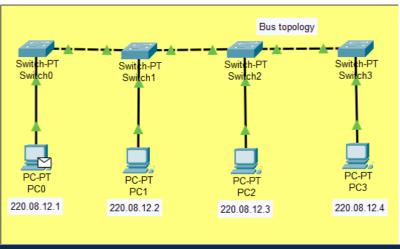
Roll No: AM.EN.U4ECE22008

ASSIGNMENT

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

Tree topology





```
Delete Windows (delete)
Fire
      Last Status Source Destination
                                           Color Time(sec) Periodic
                                                                           Edit
                                     Type
                                                                     Num
      Successful
                  PC1
                            PC2
                                     ICMP
                                                    0.000
                                                                           (edit)
                                                                                  Go to Settings to activity V
      Successful
                  PC0
                            PC1
                                                                           (edit)
                                     ICMP
                                                   0.000
                                                               Ν
```

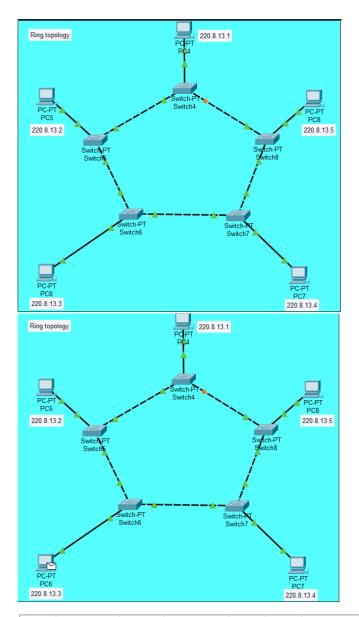
```
C:\>ping 220.08.12.1

Pinging 220.08.12.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 220.8.12.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Ring topology





```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.08.13.2

Pinging 220.08.13.2 with 32 bytes of data:

Reply from 220.8.13.2: bytes=32 time<lms TTL=128
Reply from 220.8.13.2: bytes=32 time=lms TTL=128
Reply from 220.8.13.2: bytes=32 time=lms TTL=128
Reply from 220.8.13.2: bytes=32 time=lms TTL=128

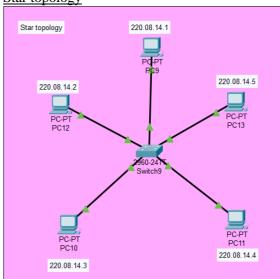
Ping statistics for 220.8.13.2:

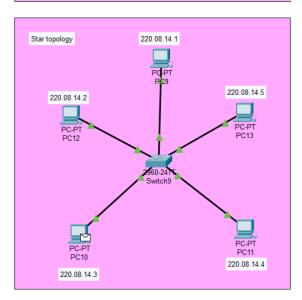
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Star topology





Fire	Last Status	Source	Destination	Туре	Color	Time(sec)	Periodic	Num	Edit	Delete Delete Activate Windows (delete)
•	Successful	PC10	PC11	ICMP		0.000	N	0	(edit)	Control Contro

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.08.14.3

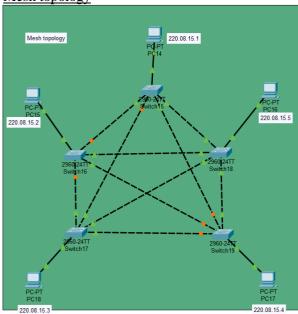
Pinging 220.08.14.3 with 32 bytes of data:

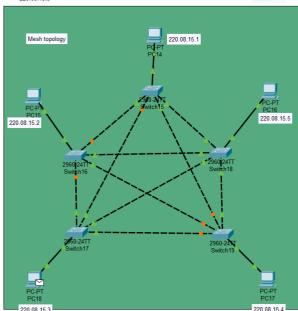
Reply from 220.8.14.3: bytes=32 time=7ms TTL=128
Reply from 220.8.14.3: bytes=32 time<1ms TTL=128
Reply from 220.8.14.3: bytes=32 time=5ms TTL=128
Reply from 220.8.14.3: bytes=32 time=5ms TTL=128
Reply from 220.8.14.3: bytes=32 time<1ms TTL=128

Ping statistics for 220.8.14.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 3ms

C:\>
```

Mesh topology







```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.08.15.1

Pinging 220.08.15.1 with 32 bytes of data:

Reply from 220.8.15.1: bytes=32 time<lms TTL=128

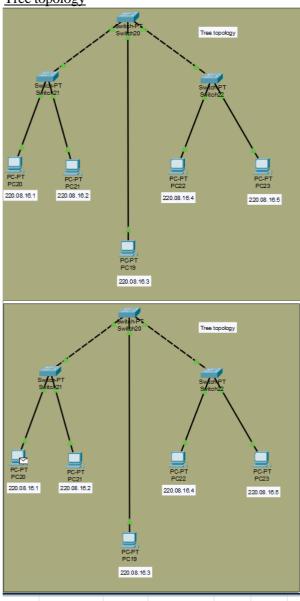
Ping statistics for 220.8.15.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

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

C:\>
```







Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.08.16.3

Pinging 220.08.16.3 with 32 bytes of data:

Reply from 220.8.16.3: bytes=32 time<lms TTL=128

Ping statistics for 220.8.16.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

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

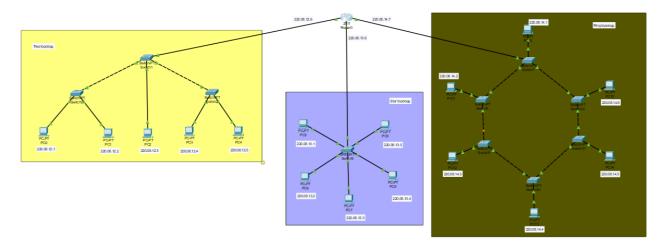
C:\>
```

Name: ANAND MAHADEVAN

Roll No: AM.EN.U4ECE22008

ASSIGNMENT

Q) Create 3 LAN networks connected via a single Router (CPT). Choose appropriate router, connection and configure it. Each LAN network is configured via Tree, Star and Ring topologies respectively.

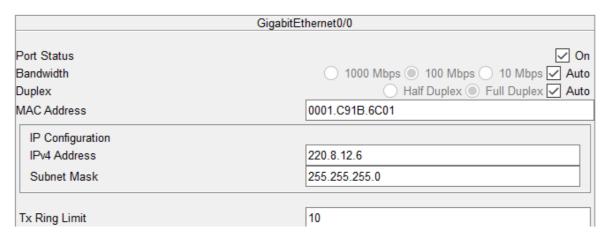


LAN1 (Tree topology): IP Addresses – 220.08.12.1 - 220.08.12.5

LAN2 (Star topology): IP Addresses – 220.08.13.1 - 220.08.13.5

LAN3 (Ring topology): IP Addresses – 220.08.14.1 - 220.08.14.6

Router Configuration:

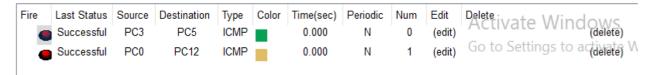


GigabitEthernet0/1							
Port Status Bandwidth Duplex MAC Address	On 1000 Mbps 100 Mbps 100 Mbps Auto Half Duplex Full Duplex Auto 0001.C91B.6C02						
IP Configuration IPv4 Address Subnet Mask	220.8.13.6 255.255.255.0						
Tx Ring Limit	10						
GigabitEthernet0/2							
Port Status Bandwidth Duplex	On 1000 Mbps 100 Mbps 10 Mbps Auto Half Duplex Full Duplex Auto 0001.C91B.6C03						
MAC Address	0001.C91B.6C03						
IP Configuration IPv4 Address Subnet Mask	220.8.14.7 255.255.255.0						
Tx Ring Limit	10						

GigabitEthernet0/0 → Connected to LAN1 (Tree Topology)

GigabitEthernet $0/1 \rightarrow$ Connected to LAN2 (Star Topology)

GigabitEthernet0/2 → Connected to LAN3 (Ring Topology)



Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.08.14.2
Pinging 220.08.14.2 with 32 bytes of data:
Request timed out.
Reply from 220.8.14.2: bytes=32 time<1ms TTL=127
Reply from 220.8.14.2: bytes=32 time=1ms TTL=127
Reply from 220.8.14.2: bytes=32 time=1ms TTL=127
Ping statistics for 220.8.14.2:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 220.08.13.2
Pinging 220.08.13.2 with 32 bytes of data:
Reply from 220.8.13.2: bytes=32 time<1ms TTL=127
Reply from 220.8.13.2: bytes=32 time<1ms TTL=127
Reply from 220.8.13.2: bytes=32 time<1ms TTL=127
Reply from 220.8.13.2: bytes=32 time=1ms TTL=127
Ping statistics for 220.8.13.2:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```