

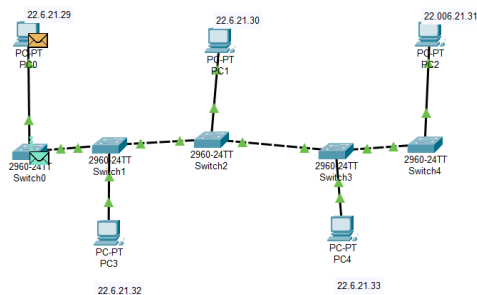
19ECE311-COMPUTER NETWORKS ASSIGNMENT

Name:ADITH S H

Roll no:AM.EN.U4ECE22006

1.BUS TOPOLOGY:

(PC0 to PC4)



Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.6.21.33

Pinging 22.6.21.33 with 32 bytes of data:

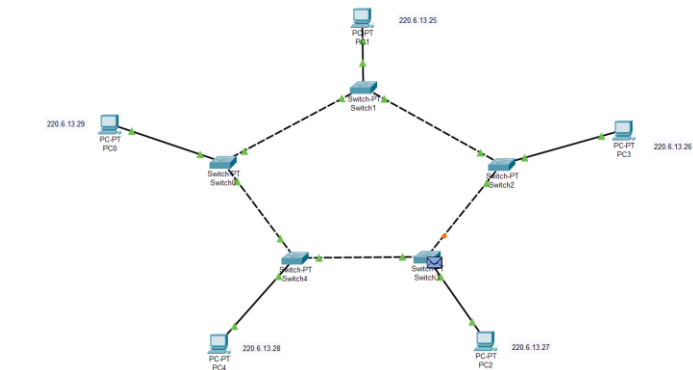
Reply from 22.6.21.33: bytes=32 time=50ms TTL=128
Reply from 22.6.21.33: bytes=32 time<lms TTL=128
Reply from 22.6.21.33: bytes=32 time<lms TTL=128
Reply from 22.6.21.33: bytes=32 time<lms TTL=128

Ping statistics for 22.6.21.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 50ms, Average = 12ms

C:\>
```

2. Ring topology:

PC0 to PC2



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.6.13.27

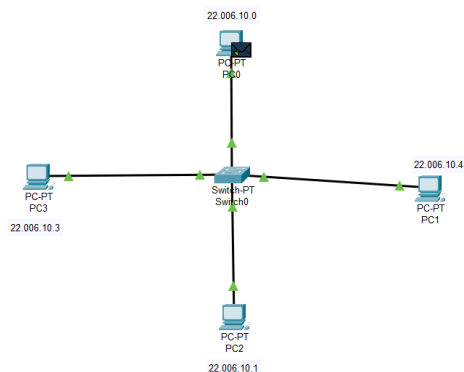
Pinging 220.6.13.27 with 32 bytes of data:

Reply from 220.6.13.27: bytes=32 time=68ms TTL=128
Reply from 220.6.13.27: bytes=32 time=1ms TTL=128
Reply from 220.6.13.27: bytes=32 time<1ms TTL=128
Reply from 220.6.13.27: bytes=32 time<1ms TTL=128

Ping statistics for 220.6.13.27:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 68ms, Average = 17ms
C:\>
```

3. Star topology:

PC0 to PC2



```
PC0

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.006.10.1

Pinging 22.006.10.1 with 32 bytes of data:

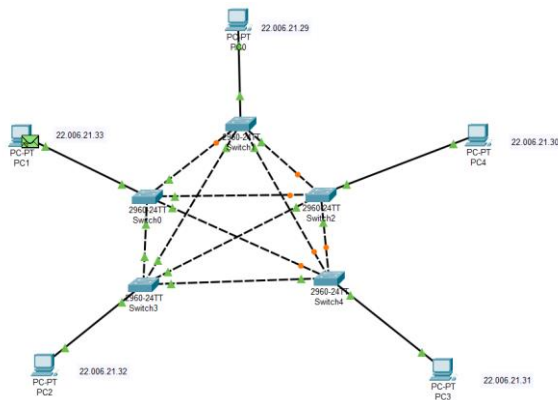
Reply from 22.6.10.1: bytes=32 time=1ms TTL=128
Reply from 22.6.10.1: bytes=32 time<1ms TTL=128
Reply from 22.6.10.1: bytes=32 time=6ms TTL=128
Reply from 22.6.10.1: bytes=32 time<1ms TTL=128

Ping statistics for 22.6.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 6ms, Average = 1ms

C:\>
```

4.Mesh topology

PC1 to PC4



```
PC1

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 22.006.21.30

Pinging 22.006.21.30 with 32 bytes of data:

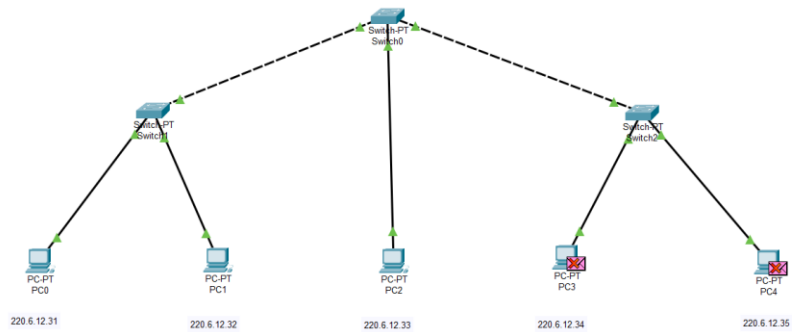
Reply from 22.6.21.30: bytes=32 time=1ms TTL=128
Reply from 22.6.21.30: bytes=32 time<1ms TTL=128
Reply from 22.6.21.30: bytes=32 time<1ms TTL=128
Reply from 22.6.21.30: bytes=32 time<1ms TTL=128

Ping statistics for 22.6.21.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

5.Tree topology

PC0 to PC2



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.6.12.33

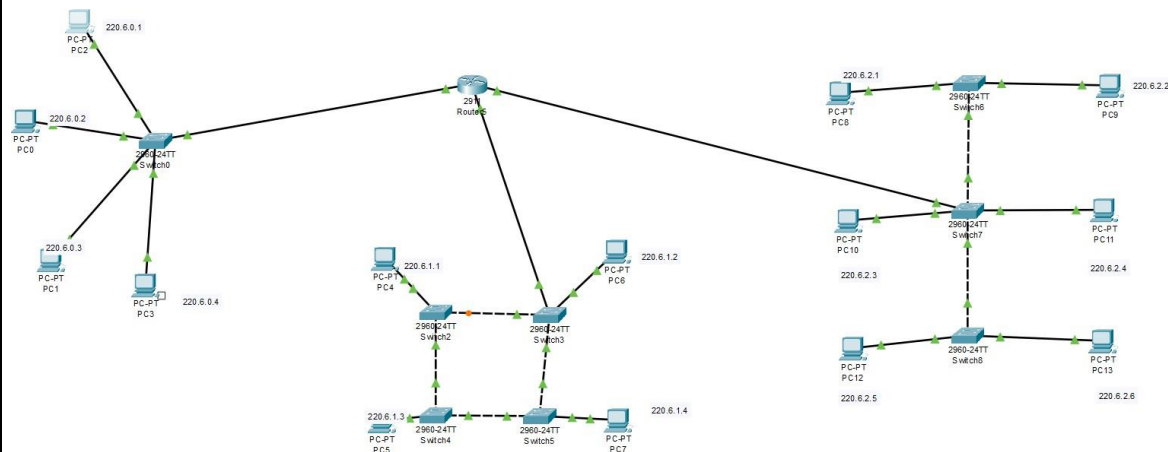
Pinging 220.6.12.33 with 32 bytes of data:

Reply from 220.6.12.33: bytes=32 time<1ms TTL=128
Reply from 220.6.12.33: bytes=32 time<1ms TTL=128
Reply from 220.6.12.33: bytes=32 time<1ms TTL=128
Reply from 220.6.12.33: bytes=32 time<1ms TTL=128

Ping statistics for 220.6.12.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Q2) 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.



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC3	PC4	ICMP		0.000	N	0	(edit)	
	Successful	PC6	PC8	ICMP		0.000	N	1	(edit)	
	Successful	PC2	PC10	ICMP		0.000	N	2	(edit)	

1. From PC2 to PC10

```
C:\>ping 220.6.2.3

Pinging 220.6.2.3 with 32 bytes of data:

Request timed out.
Reply from 220.6.2.3: bytes=32 time=1ms TTL=127
Reply from 220.6.2.3: bytes=32 time=1ms TTL=127
Reply from 220.6.2.3: bytes=32 time<1ms TTL=127

Ping statistics for 220.6.2.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

2.From PC3 To PC4

```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.6.1.1

Pinging 220.6.1.1 with 32 bytes of data:

Request timed out.
Reply from 220.6.1.1: bytes=32 time=10ms TTL=127
Reply from 220.6.1.1: bytes=32 time<1ms TTL=127
Reply from 220.6.1.1: bytes=32 time=1ms TTL=127

Ping statistics for 220.6.1.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:\>
```

3.From PC6 to PC8

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 220.6.2.1

Pinging 220.6.2.1 with 32 bytes of data:

Request timed out.
Reply from 220.6.2.1: bytes=32 time<1ms TTL=127
Reply from 220.6.2.1: bytes=32 time<1ms TTL=127
Reply from 220.6.2.1: bytes=32 time<1ms TTL=127

Ping statistics for 220.6.2.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

