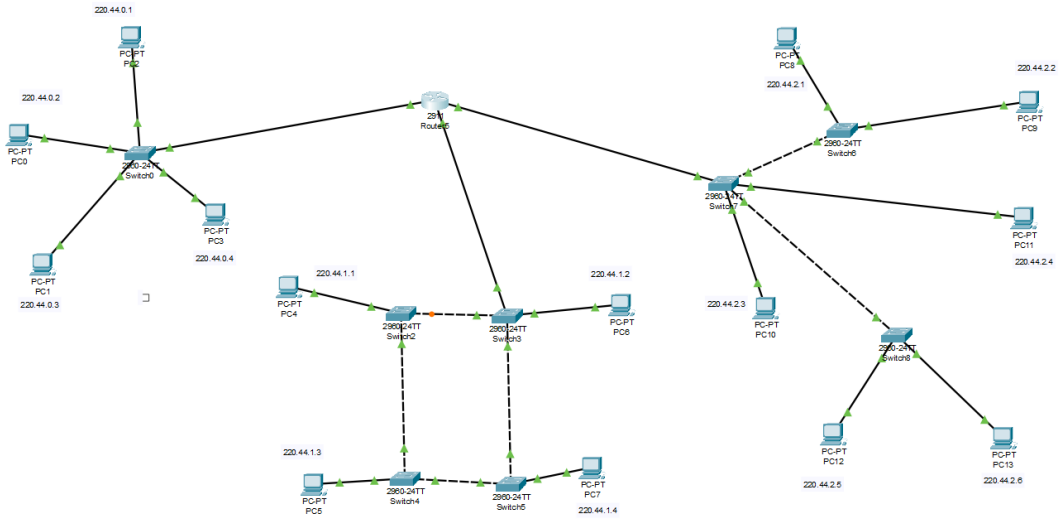
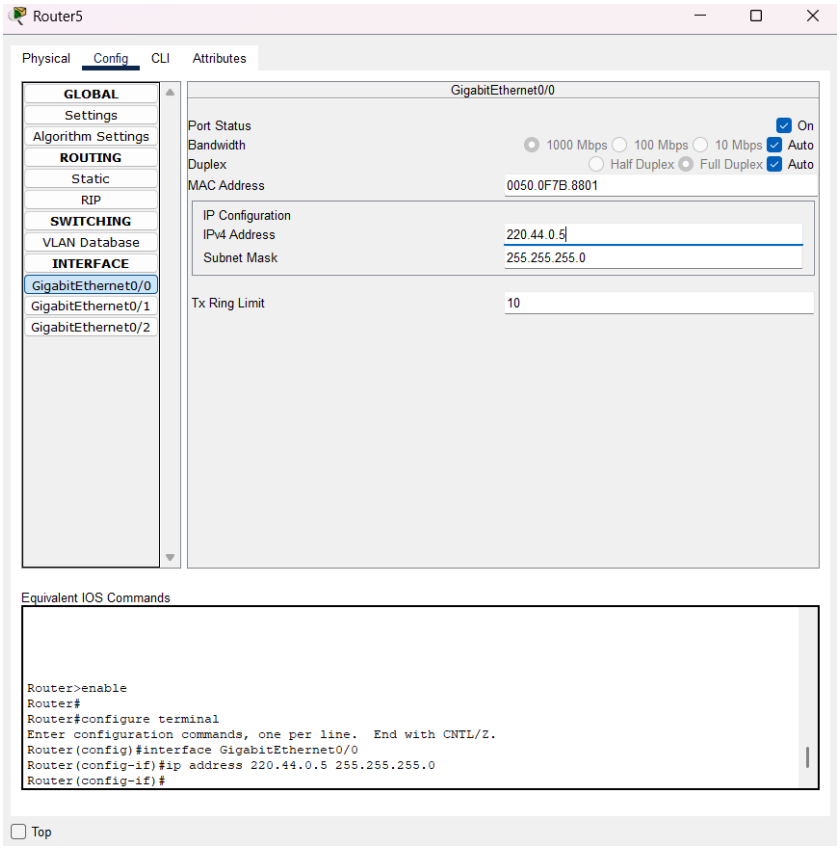
CN ASSIGNMENT

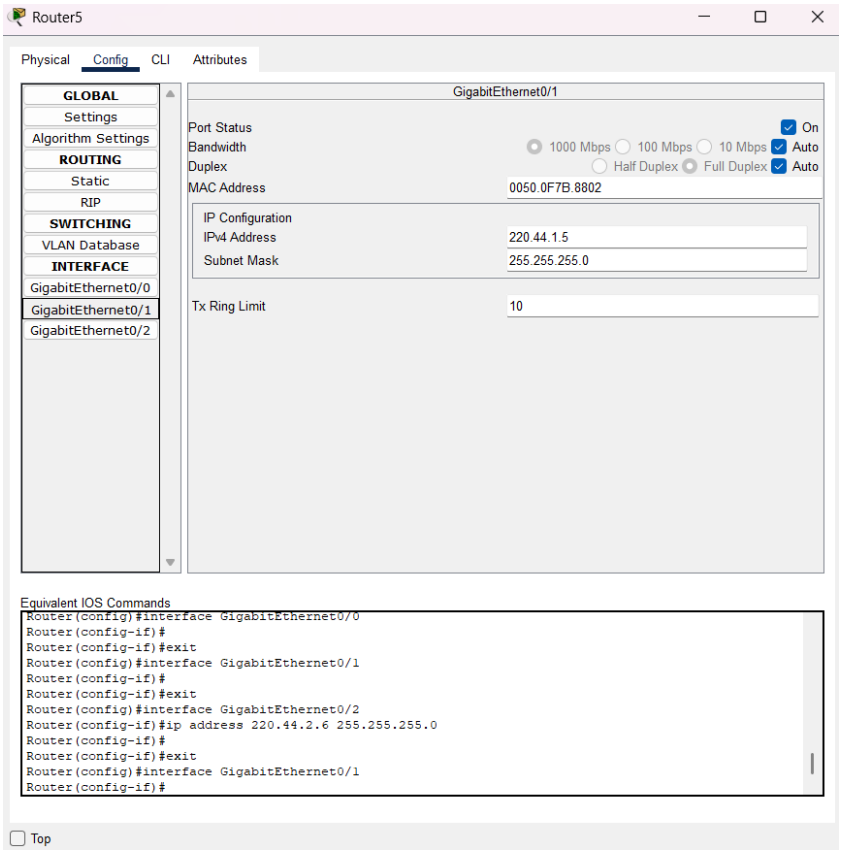
S Indiresh

AM.EN.U4ECE22044

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.




Router5
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/2
GigabitEthernet0/0
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0050.0F7B.8801
IP Configuration
IPv4 Address
220.44.0.5
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Equivalent IOS Commands
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 220.44.0.5 255.255.255.0
Router(config-if)#
Top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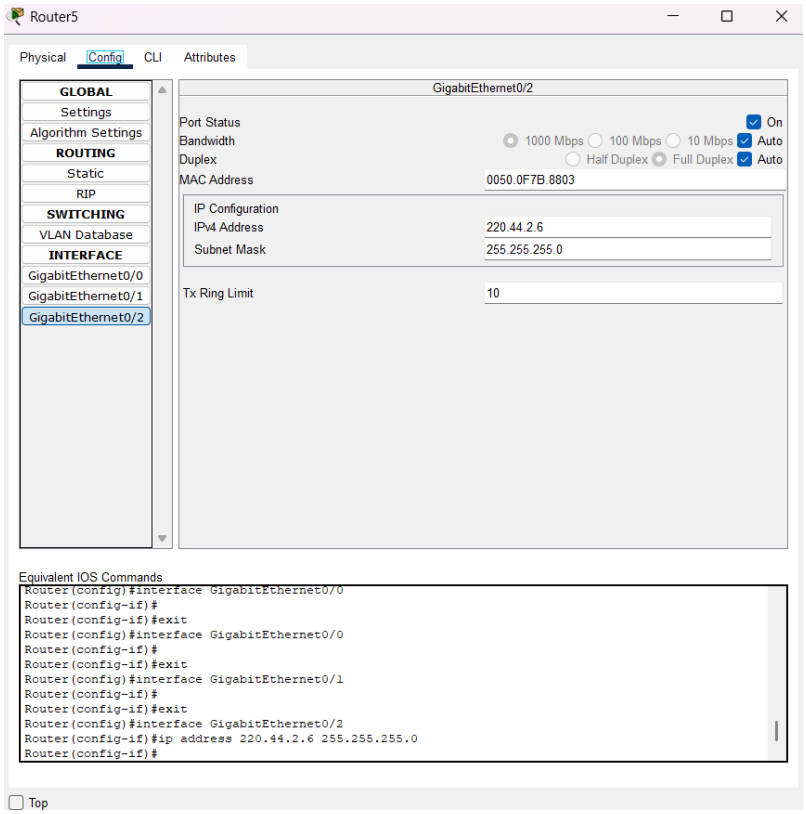
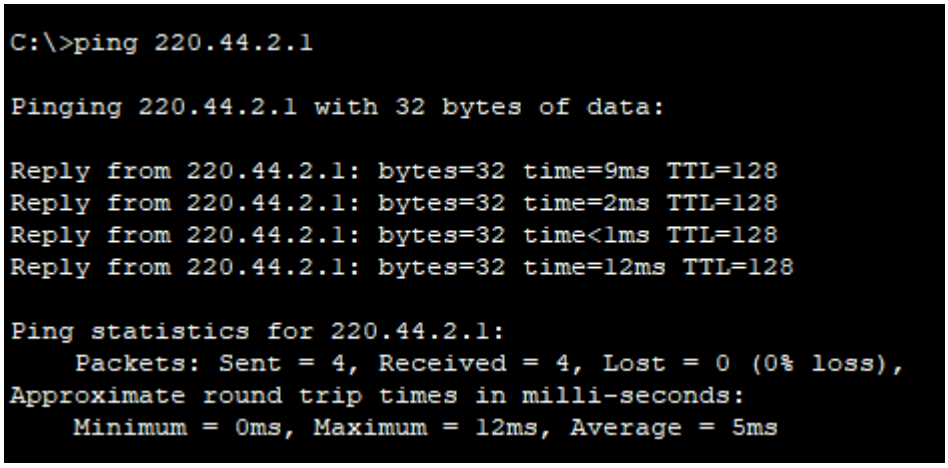
GigabitEthernet0/1
GigabitEthernet0/2
GigabitEthernet0/1
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0050.0F7B.8802
IP Configuration
IPv4 Address
220.44.1.5
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Equivalent IOS Commands
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/2
Router(config-if)#ip address 220.44.2.6 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Top




```
C:\>ping 220.44.0.1

Pinging 220.44.0.1 with 32 bytes of data:

Reply from 220.44.0.1: bytes=32 time=2ms TTL=128
Reply from 220.44.0.1: bytes=32 time<1ms TTL=128
Reply from 220.44.0.1: bytes=32 time=5ms TTL=128
Reply from 220.44.0.1: bytes=32 time=5ms TTL=128

Ping statistics for 220.44.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 5ms, Average = 3ms
```

```
C:\>ping 220.44.1.1

Pinging 220.44.1.1 with 32 bytes of data:

Reply from 220.44.1.1: bytes=32 time=9ms TTL=128
Reply from 220.44.1.1: bytes=32 time=4ms TTL=128
Reply from 220.44.1.1: bytes=32 time=6ms TTL=128
Reply from 220.44.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 220.44.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 4ms
```


C:\>ping 220.44.2.1
Pinging 220.44.2.1 with 32 bytes of data:
Reply from 220.44.2.1: bytes=32 time=9ms TTL=128
Reply from 220.44.2.1: bytes=32 time=2ms TTL=128
Reply from 220.44.2.1: bytes=32 time<1ms TTL=128
Reply from 220.44.2.1: bytes=32 time=12ms TTL=128
Ping statistics for 220.44.2.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 12ms, Average = 5ms