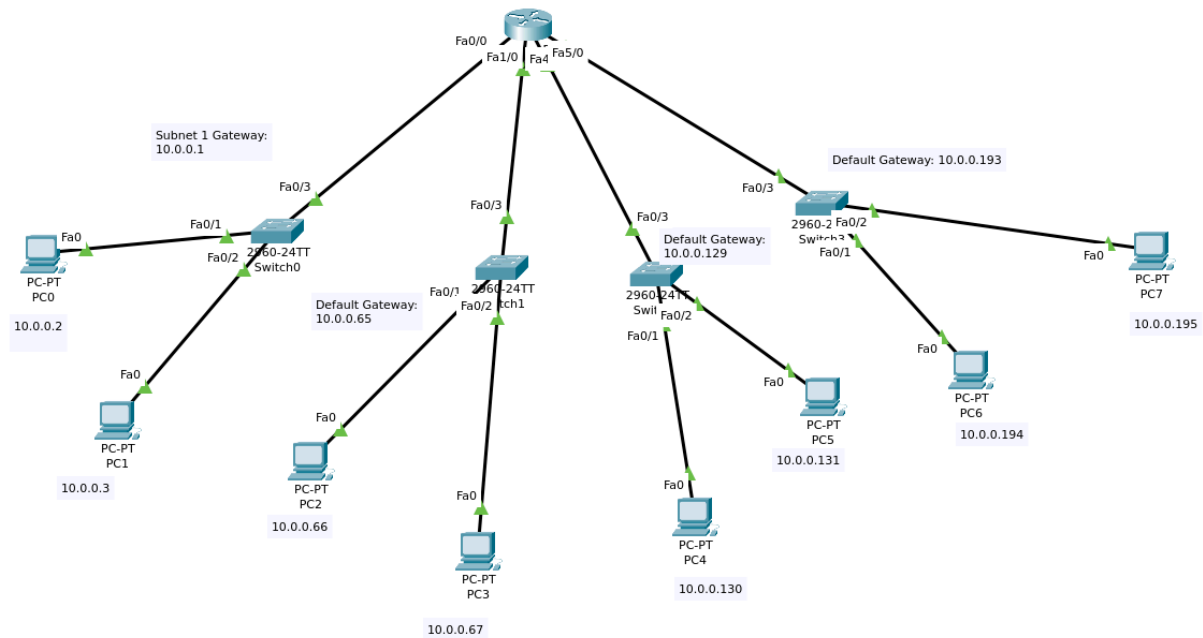


Q3)

SUBNET MASK = 255.255.255.192

Network Topology:



SUBNET 1:

Default Gateway: 10.0.0.1

PC0: 10.0.0.2

PC1: 10.0.0.3

SUBNET 2:

Default Gateway: 10.0.0.65

PC2: 10.0.0.66

PC3: 10.0.0.67

SUBNET 3:

Default Gateway: 10.0.0.129

PC4: 10.0.0.130

PC5: 10.0.0.131

SUBNET 4:

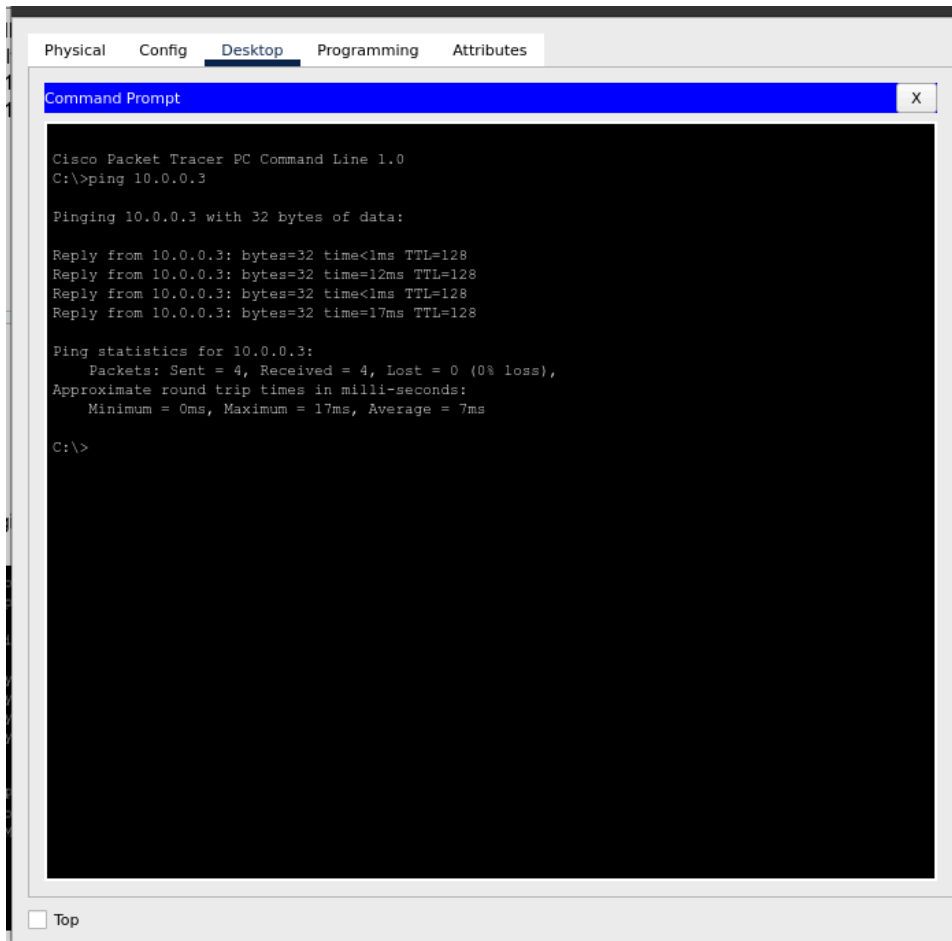
Default Gateway: 10.0.0.193

PC6: 10.0.0.194

PC7: 10.0.0.195

PING:

i) Pinging from PC0 to PC1 (SUBNET 1 to SUBNET 1)



The screenshot shows a Cisco Packet Tracer PC Command Line window. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active. The command prompt shows the following text:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time=12ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time=17ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 7ms

C:\>
```

At the bottom left of the window, there is a checkbox labeled "Top" which is currently unchecked.

ii) PC0 to PC2 (SUBNET 1 to SUBNET 2):

```
Pinging 10.0.0.66 with 32 bytes of data:

Reply from 10.0.0.66: bytes=32 time<1ms TTL=127
Reply from 10.0.0.66: bytes=32 time=11ms TTL=127
Reply from 10.0.0.66: bytes=32 time=1ms TTL=127
Reply from 10.0.0.66: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.0.66:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 3ms

C:\>
```

iii) PC0 to PC4 (SUBNET 1 to SUBNET 3):

```
C:\>ping 10.0.0.130

Pinging 10.0.0.130 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.130: bytes=32 time=1ms TTL=127
Reply from 10.0.0.130: bytes=32 time=17ms TTL=127
Reply from 10.0.0.130: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.0.130:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 6ms

C:\>
```

iv) PC0 to PC6

```
C:\>ping 10.0.0.194

Pinging 10.0.0.194 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.194: bytes=32 time=18ms TTL=127
Reply from 10.0.0.194: bytes=32 time<1ms TTL=127
Reply from 10.0.0.194: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.0.194:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 18ms, Average = 6ms
```