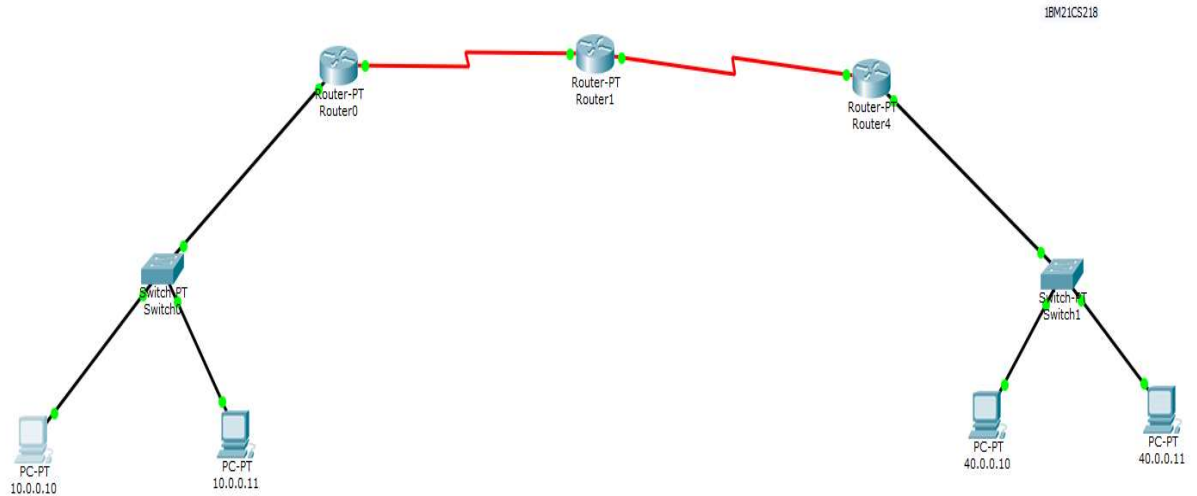


CN LAB 4

Topology:



Command Prompt

```
PC>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.10: bytes=32 time=5ms TTL=125
Reply from 40.0.0.10: bytes=32 time=4ms TTL=125
Reply from 40.0.0.10: bytes=32 time=5ms TTL=125

Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 5ms, Average = 4ms

PC>ping 10.0.0.11

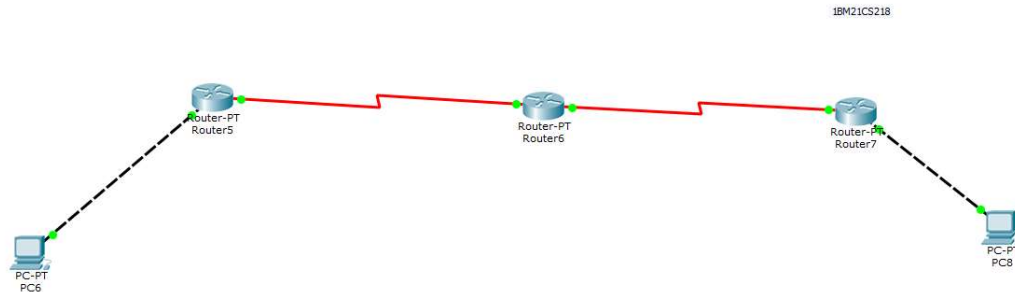
Pinging 10.0.0.11 with 32 bytes of data:

Reply from 10.0.0.11: bytes=32 time=1ms TTL=128
Reply from 10.0.0.11: bytes=32 time=1ms TTL=128
Reply from 10.0.0.11: bytes=32 time=10ms TTL=128
Reply from 10.0.0.11: bytes=32 time=0ms TTL=128

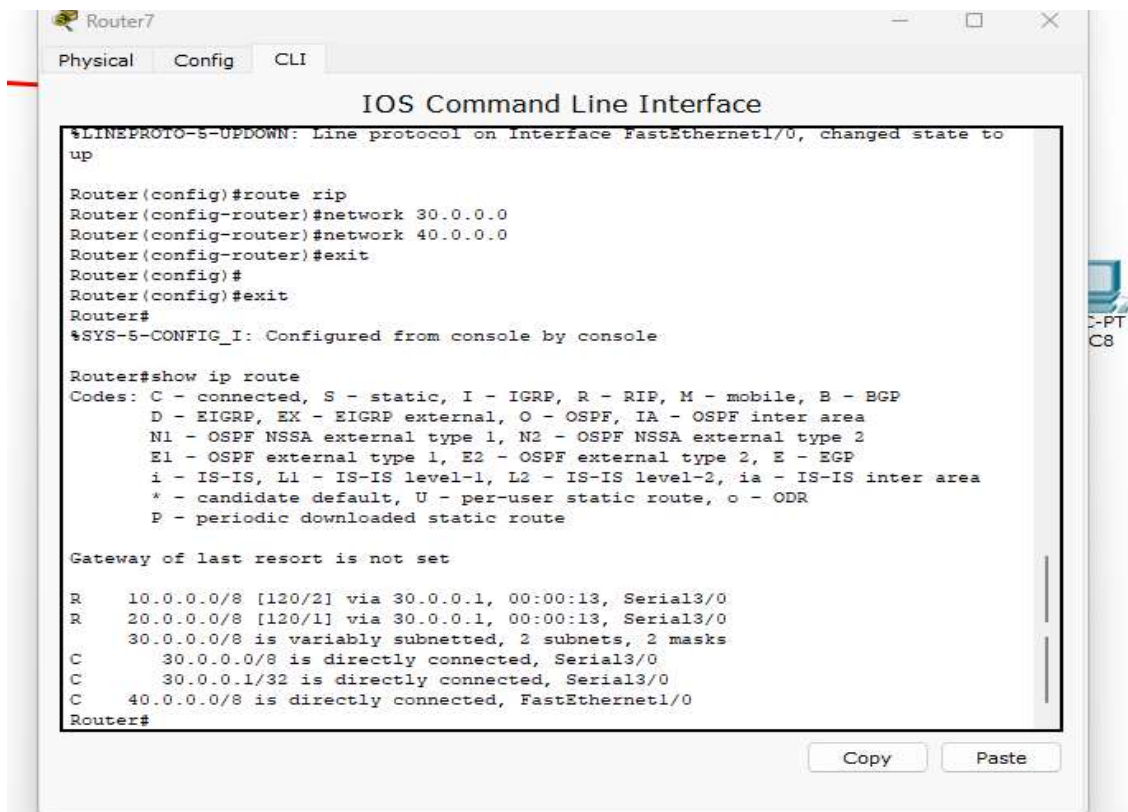
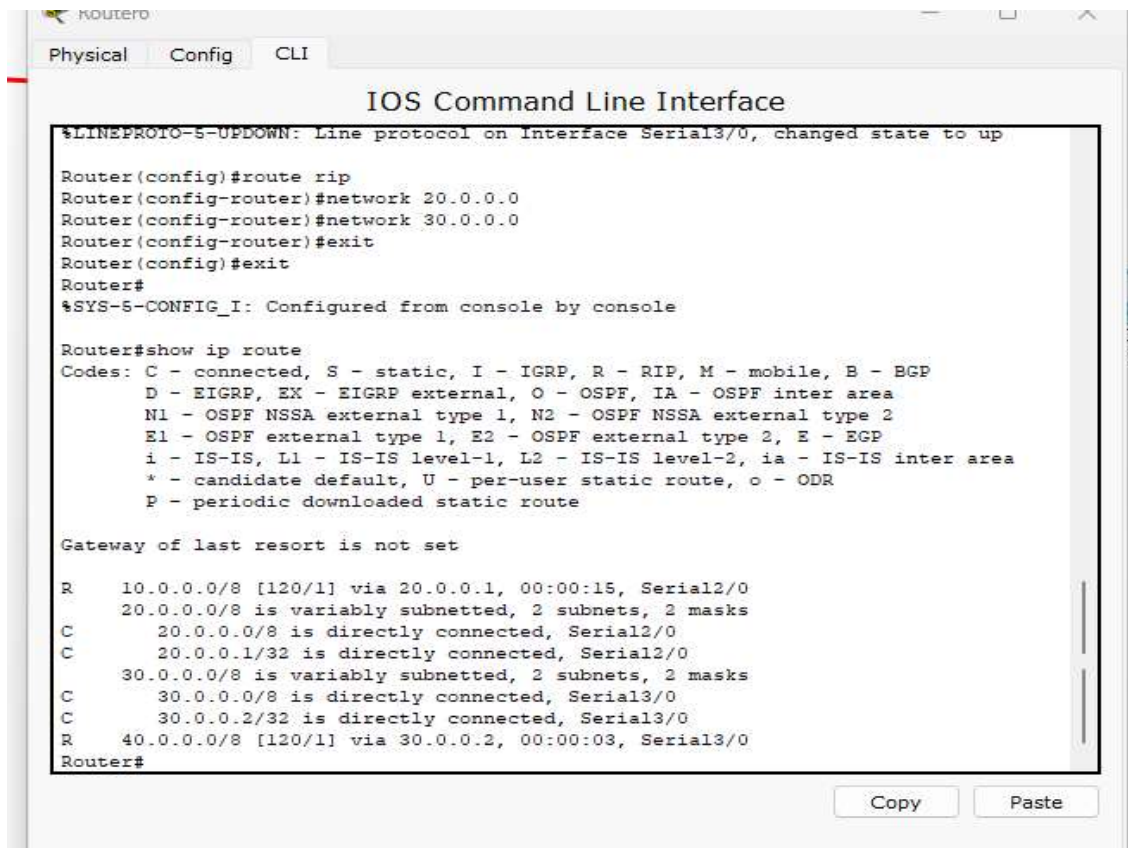
Ping statistics for 10.0.0.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 3ms

PC>
```

Topology:



```
Router3
Physical Config CLI
IOS Command Line Interface
% Incomplete command.
Router(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to
down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to
up
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
C    10.0.0.0/8 is directly connected, FastEthernet0/0
    20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C    20.0.0.0/8 is directly connected, Serial2/0
C    20.0.0.2/32 is directly connected, Serial2/0
R    30.0.0.0/8 [120/1] via 20.0.0.2, 00:00:08, Serial2/0
R    40.0.0.0/8 [120/2] via 20.0.0.2, 00:00:08, Serial2/0
Router#
```




```
R1(config)# no shutdown
R1(config-if)# exit
```

In Router R2,

```
R2(config)# interface serial 1/0
R2(config-if)# ip address 20.0.0.2 255.0.0.0
R2(config-if)# encapsulation ppp
R2(config-if)# no shutdown
R2(config-if)# exit
```

required
for this
also

```
R2(config)# interface serial 1/1
ip address 30.0.0.1 255.0.0.0
encapsulation ppp
clockrate 64000
no shutdown
exit
```

Follow same for R3.

Step 3:- Configure RIP to all routers by using command

In R1,

```
R1(config)# router rip
R1(config-router)# network 20.0.0.0
R1(config-router)# network 30.0.0.0
```