# WEEK 4

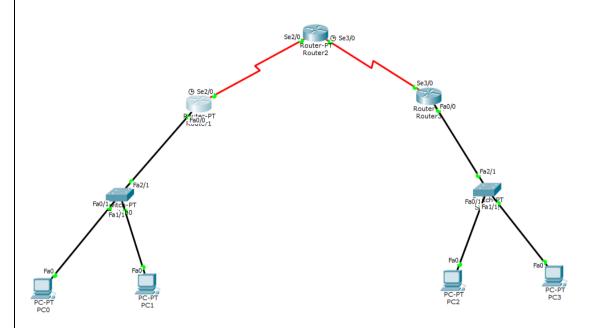
### **EXPERIMENT 3**

NAME: PRITHVI PRAKASH SHET

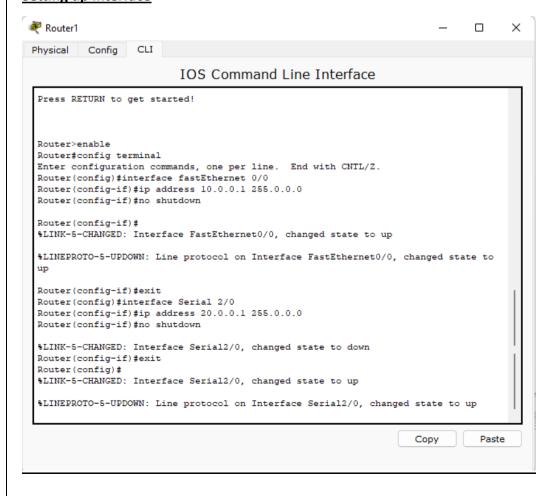
USN: 1BM21CS265

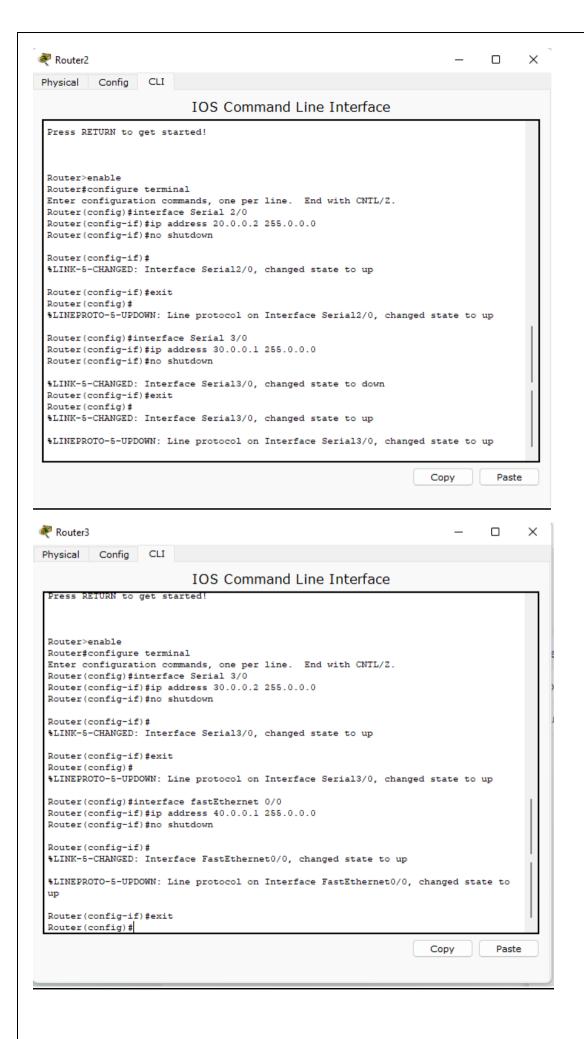
# Configure default route, static route to the Router

## **Topology:**



## Setting up interface

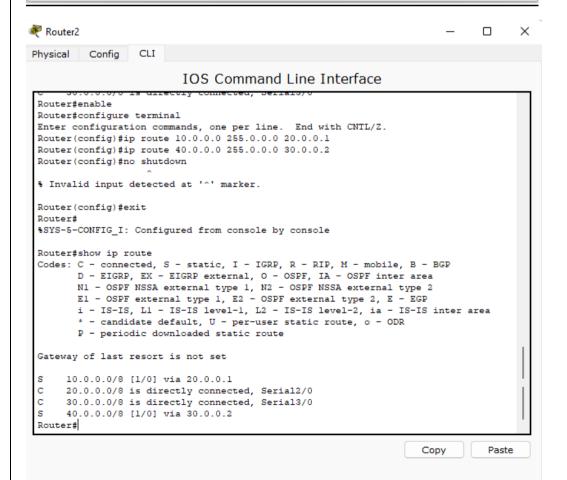


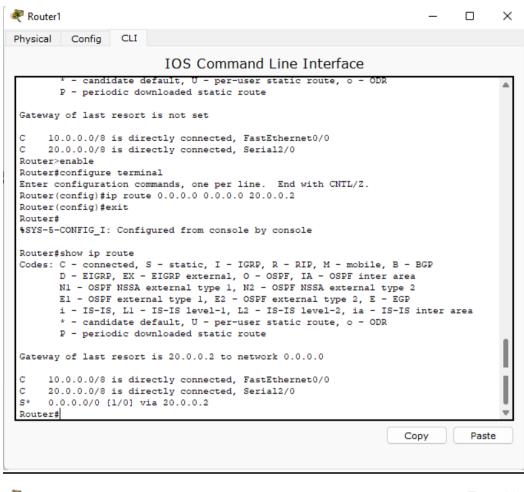


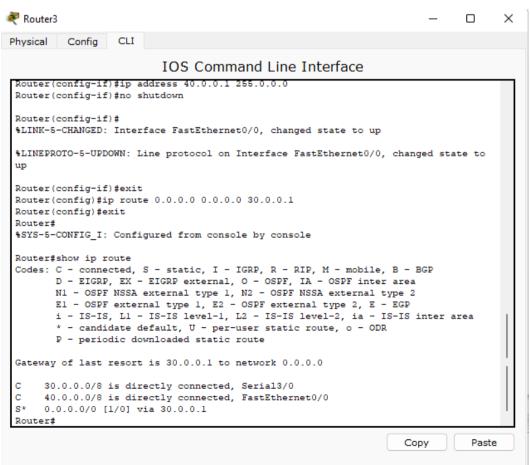
# Setting static route to R2 and default route to R1 and R3 Router2 Physical Config CLI IOS Command Line Interface

```
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
     20.0.0.0/8 is directly connected, Serial2/0
     30.0.0.0/8 is directly connected, Serial3/0
Router#enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip route 10.0.0.0 255.0.0.0 20.0.0.1
Router(config) #ip route 40.0.0.0 255.0.0.0 30.0.0.2
Router(config) #no shutdown
% Invalid input detected at '^' marker.
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
                                                                             Сору
                                                                                          Paste
```

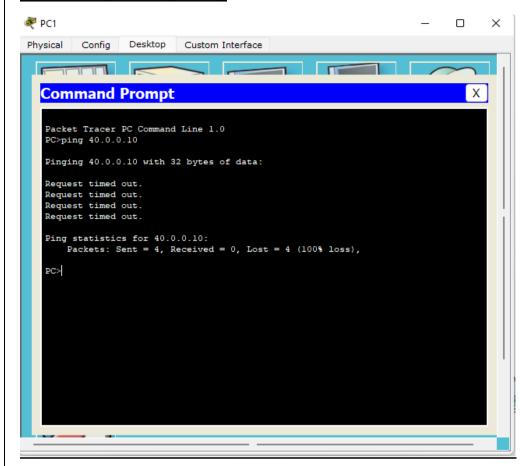
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### Before setting default gateway:



# After setting default gateway:

```
₱ PC0

                                                                                                                                 X
                Config
                              Desktop Custom Interface
Physical
     Command Prompt
                                                                                                                                      Χ
     PC>ping 40.0.0.10
     Pinging 40.0.0.10 with 32 bytes of data:
     Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
     Reply from 40.0.0.10: bytes=32 time=5ms TTL=125
Reply from 40.0.0.10: bytes=32 time=8ms 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 = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
            Minimum = 5ms, Maximum = 8ms, Average = 6ms
     PC>ping 40.0.0.11
     Pinging 40.0.0.11 with 32 bytes of data:
     Reply from 40.0.0.11: bytes=32 time=15ms TTL=125
Reply from 40.0.0.11: bytes=32 time=3ms TTL=125
Reply from 40.0.0.11: bytes=32 time=14ms TTL=125
Reply from 40.0.0.11: bytes=32 time=8ms TTL=125
     Ping statistics for 40.0.0.11:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 15ms, Average = 10ms
```