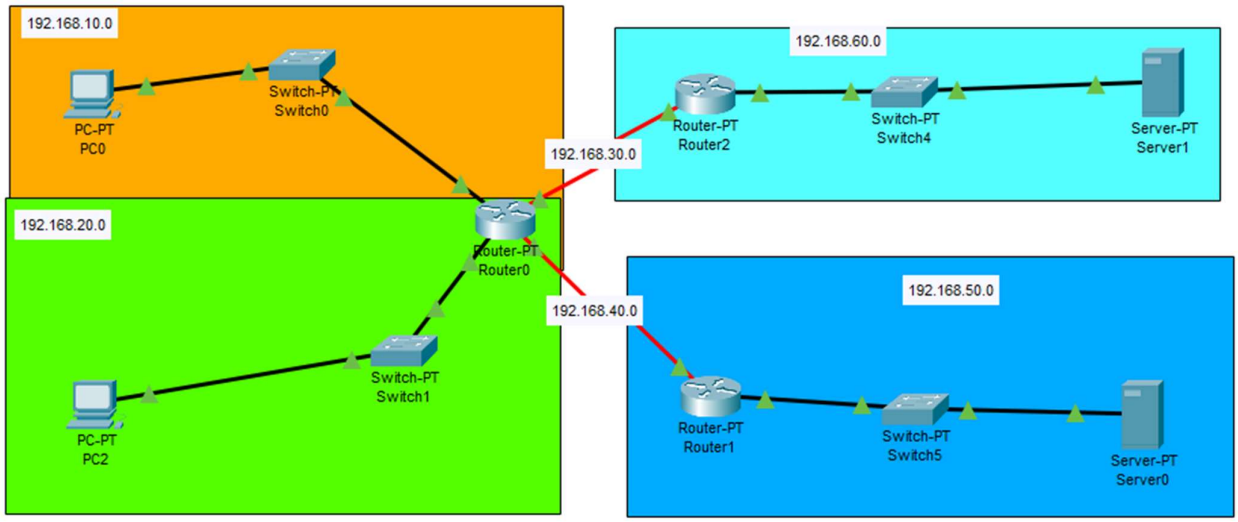
AIM: **Understanding ,Reading and Analyzing Routing Table of a network**

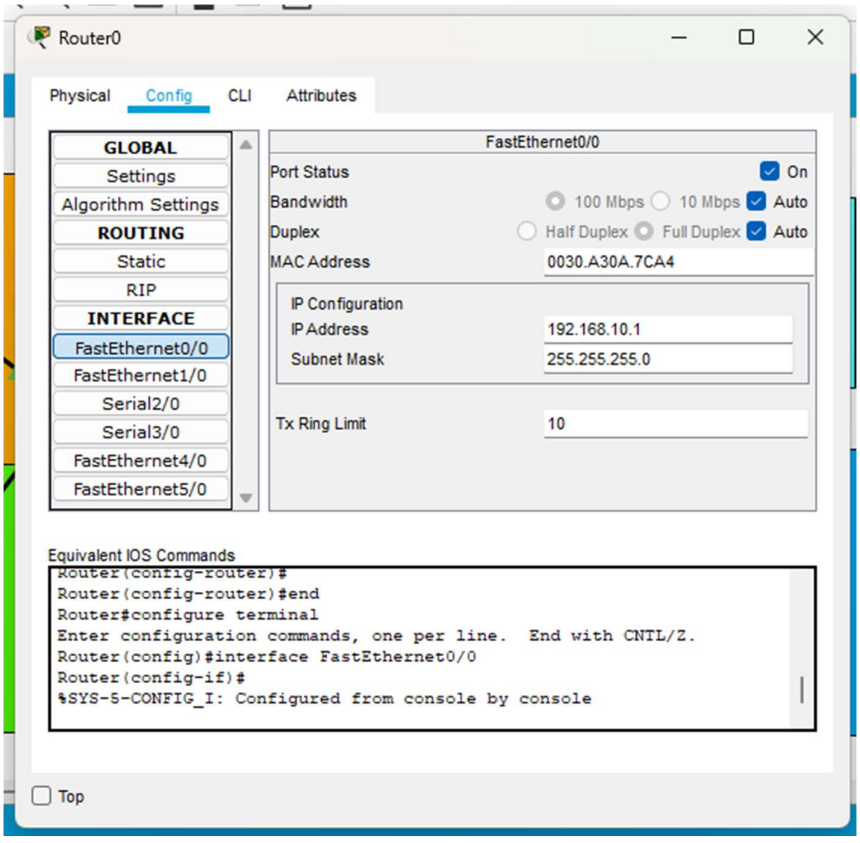


We have 6 networks in this topology.

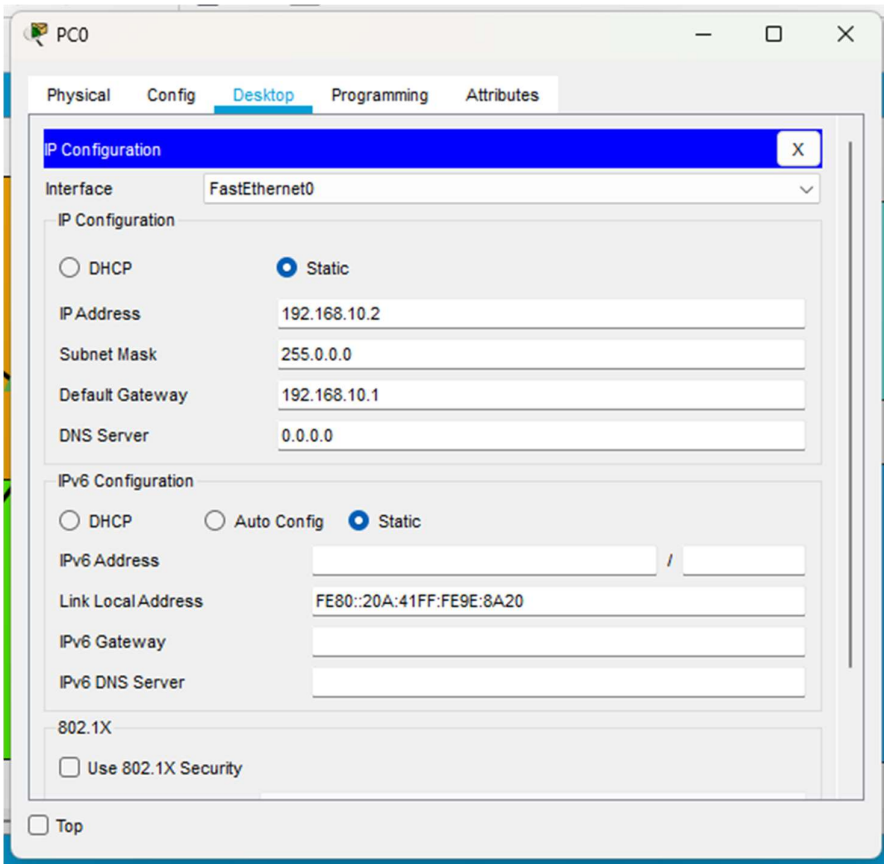
192.168.10.0, 192.168.20.0, 192.168.30.0, 192.168.40.0, 192.168.50.0, 192.168.60.0

Let's configure network 192.168.10.0

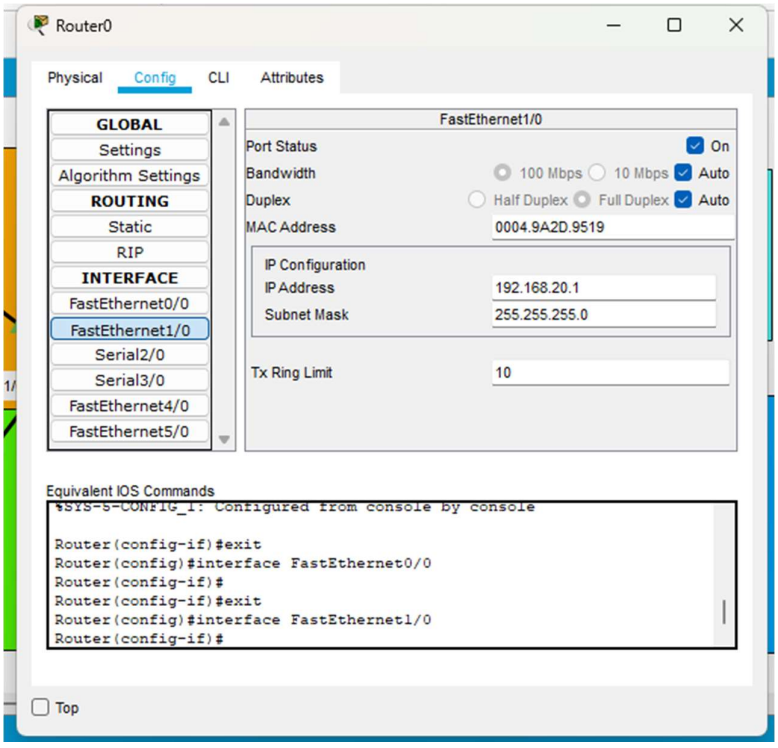
Double Click on router0, click on fa0/0 and enter the ip address



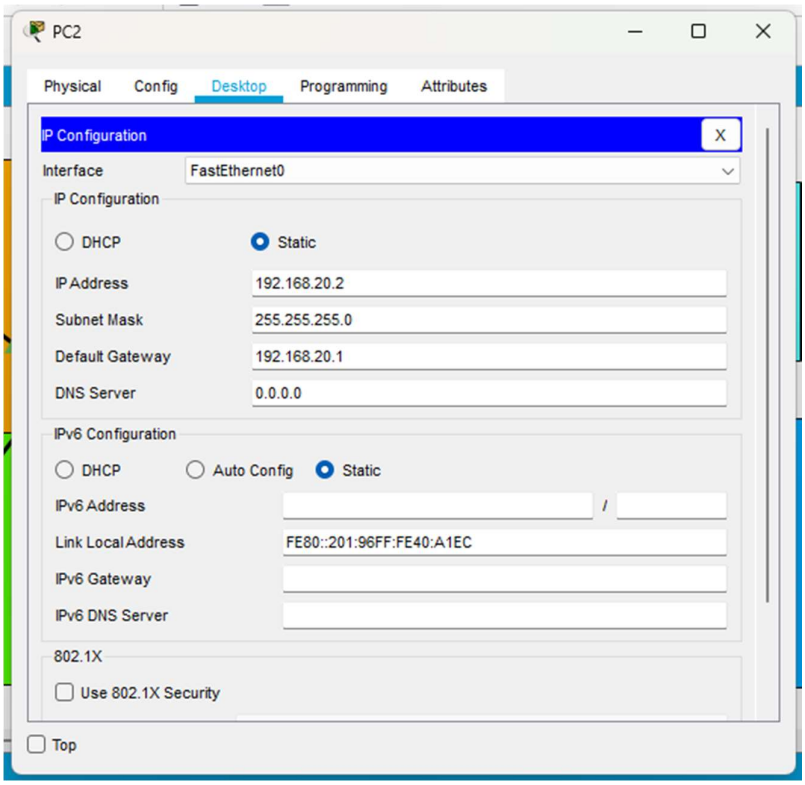
Now Click on the PC0 and enter the ip and default geteway.



Now we configure network 192.168.20.0, on router0 go to fa1/0 interface and enter the ip address

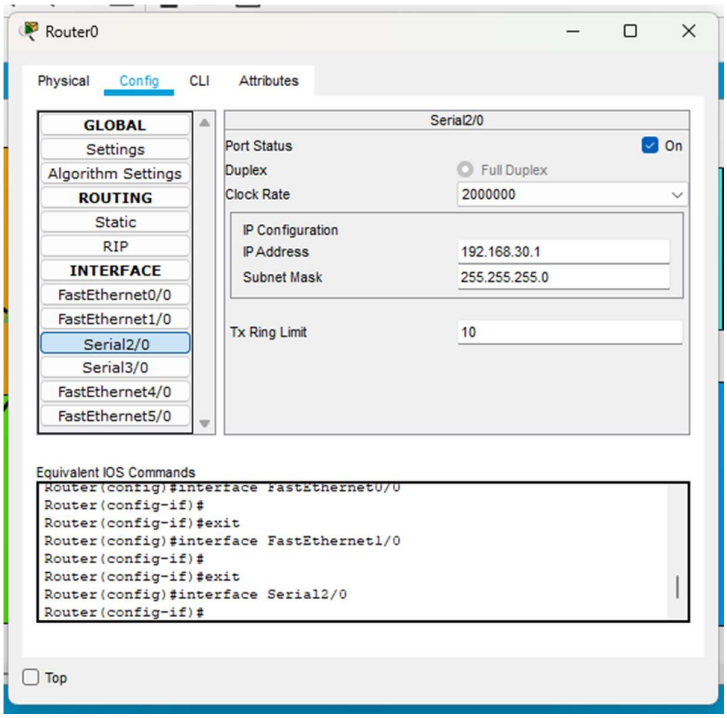


Now click on PC2 and enter the ip and default gateway for the particular network.

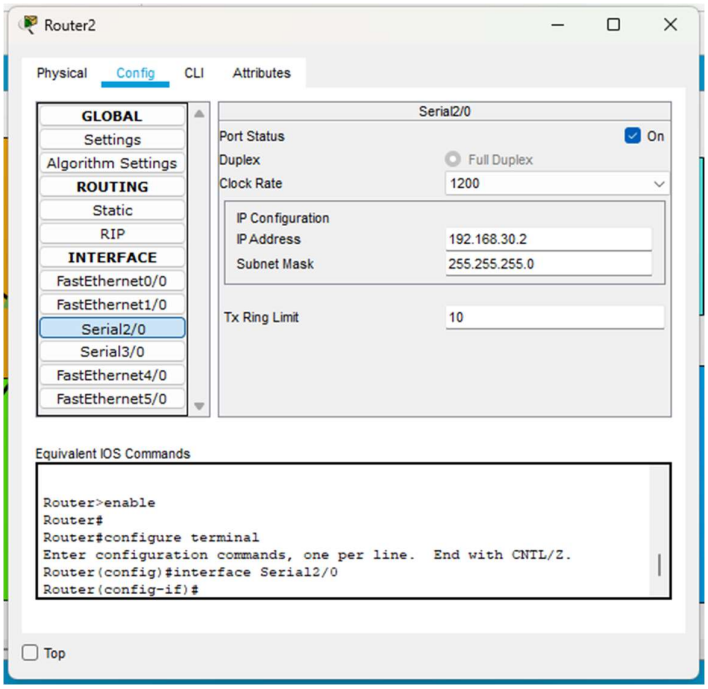


Now we configure network 192.168.30.0. i.e the connection between router0 and router2

On router0, go to se2/0 interface and enter ip address

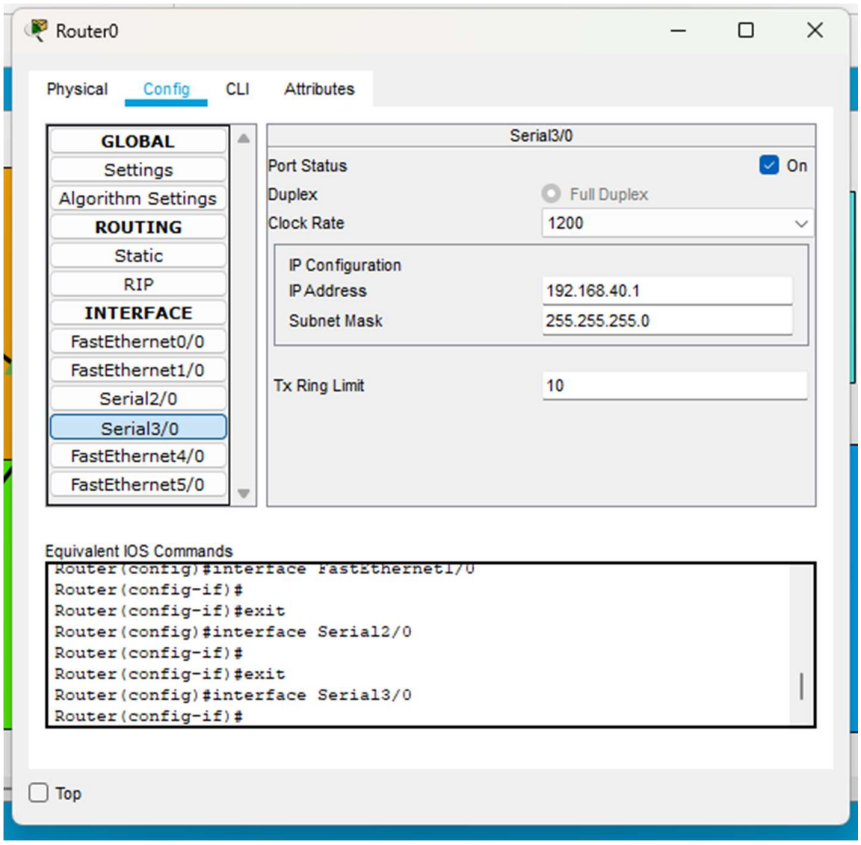


We go to the same interface on router2 and enter the ip address

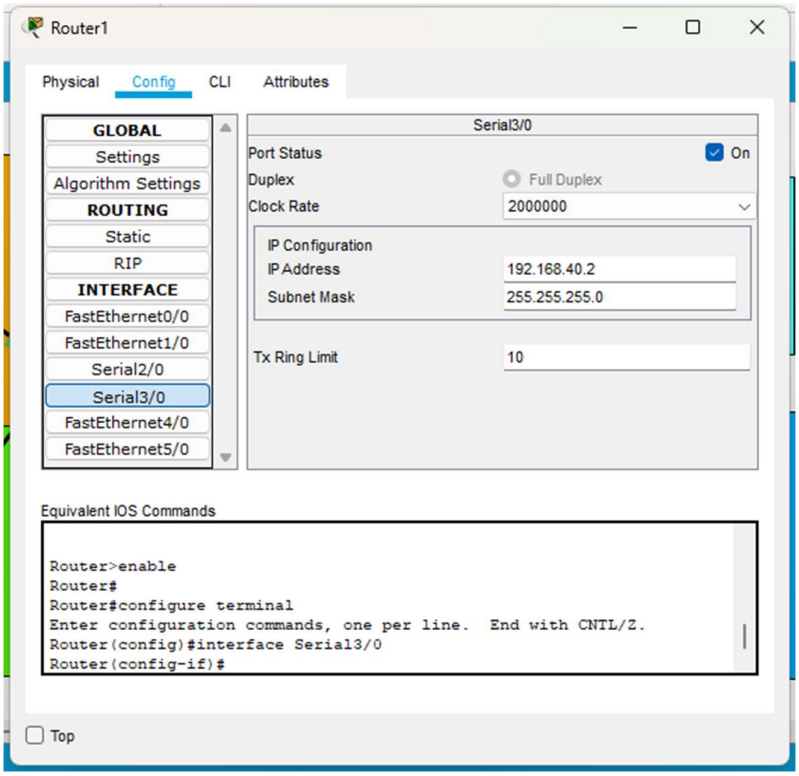


Now we configure network 192.168.40.0. i.e the connection between router0 and router1

On router0, go to se3/0 interface and enter ip address

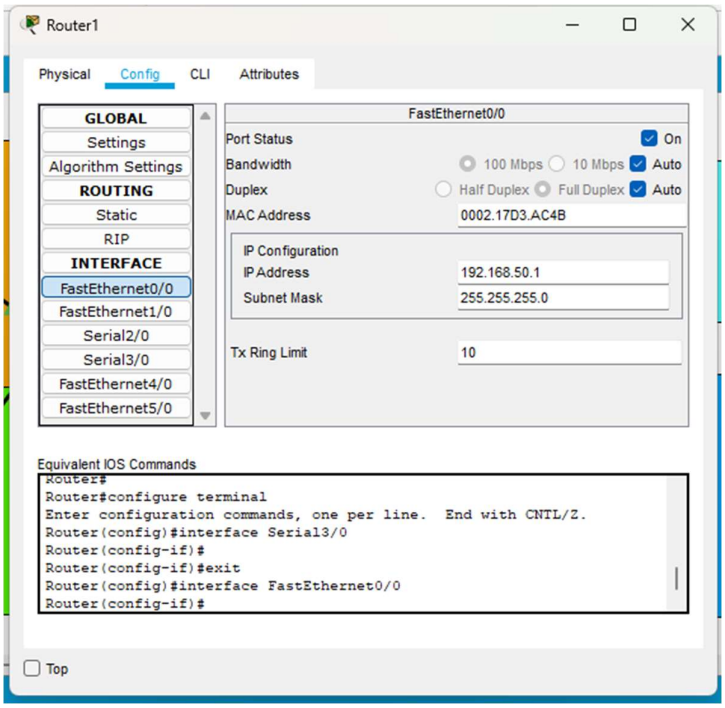


We go to the same interface on router1 and enter the ip address

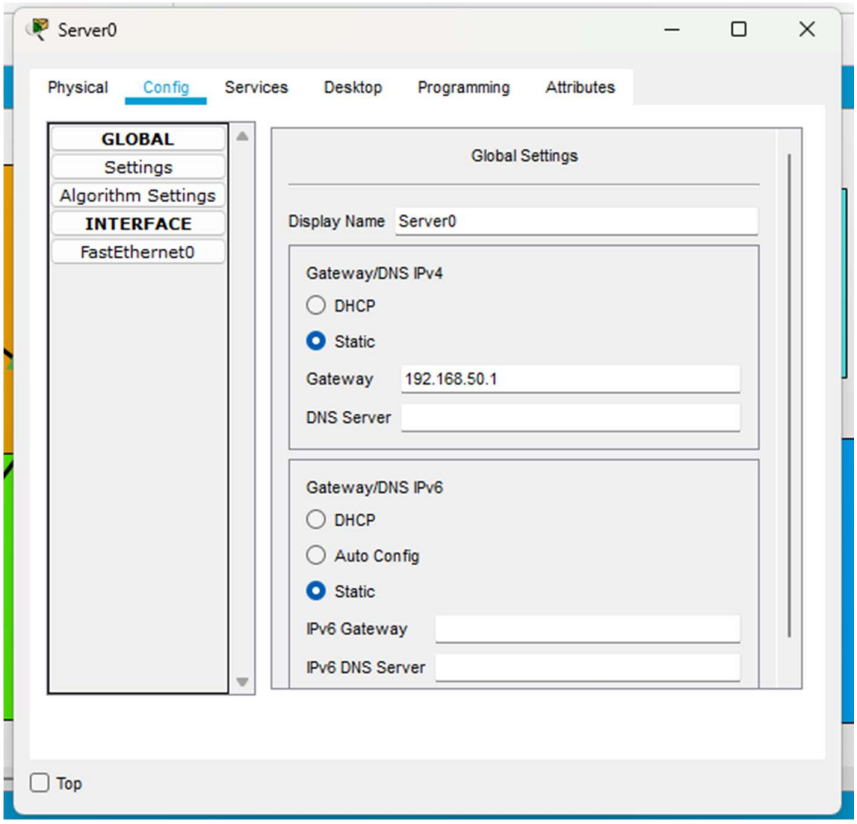


Now we configure network 192.168.50.0.

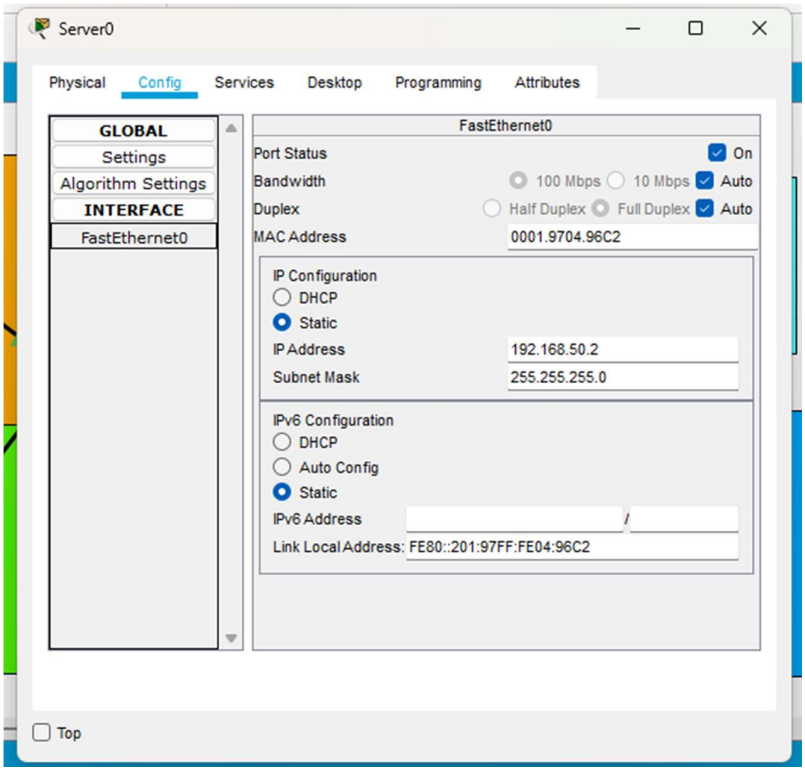
Go to interface fa0/0 on router1 and enter the ip address



Now click on Server0 and enter the default gateway.

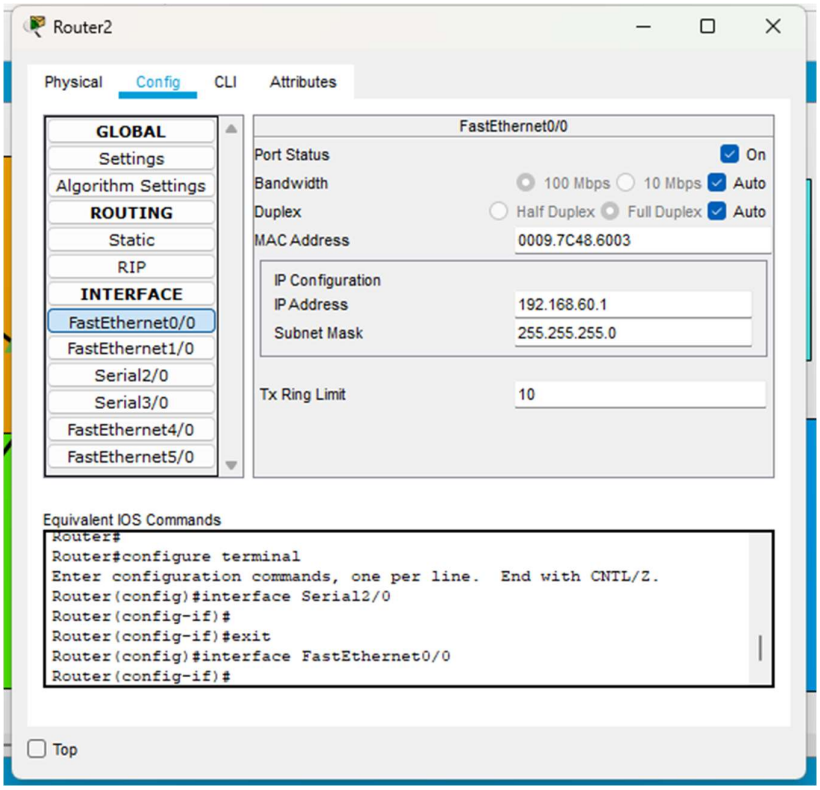


And also set the fa0 interface of the server and set the ip address

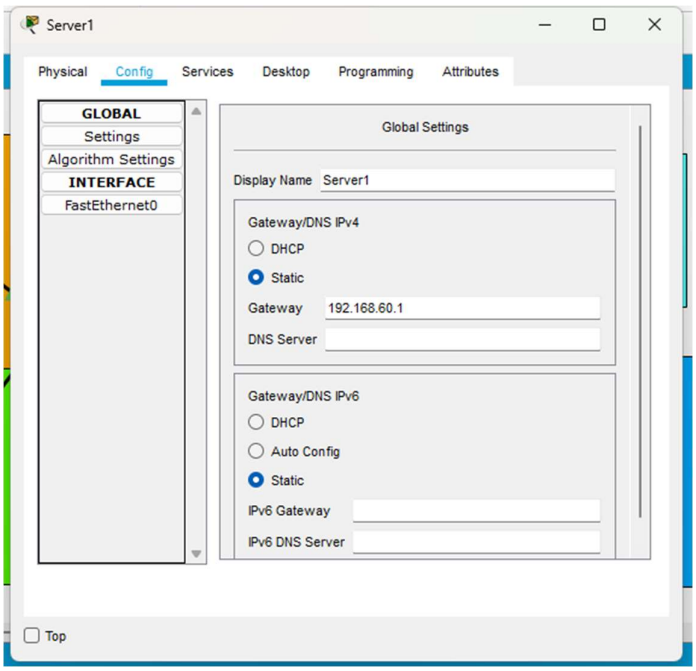


Now we configure the network 192.168.60.0

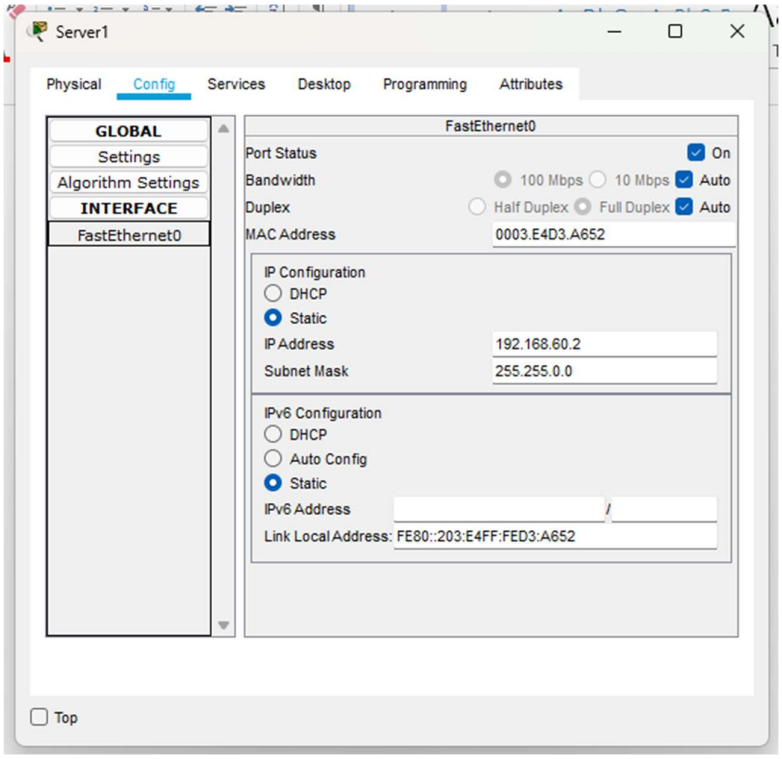
Go to interface fa0/0 on router2 and enter the ip address



Now click on Server1 and enter the default gateway.

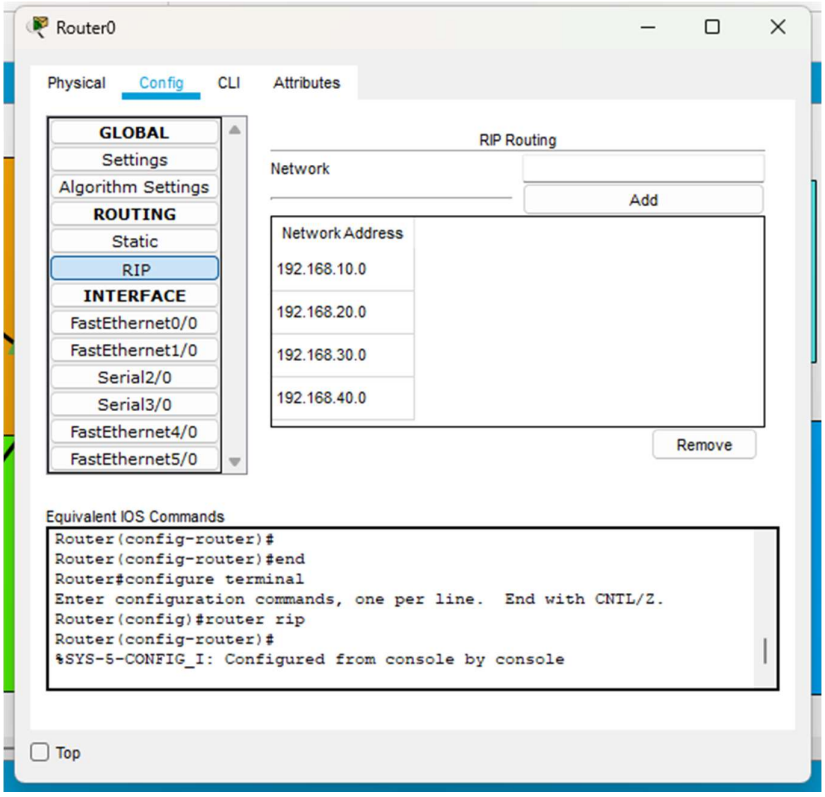


And also set the fa0 interface of the server and set the ip address

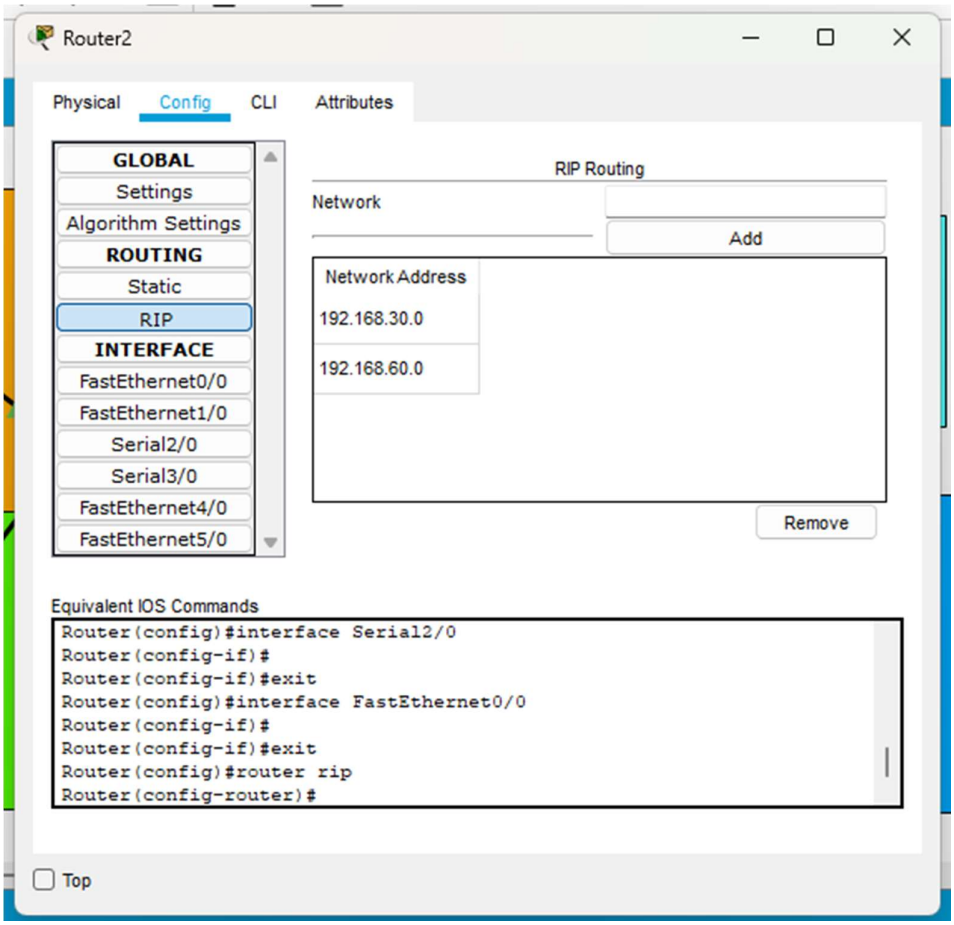


Now we do the RIP configuration for all 3 routers.

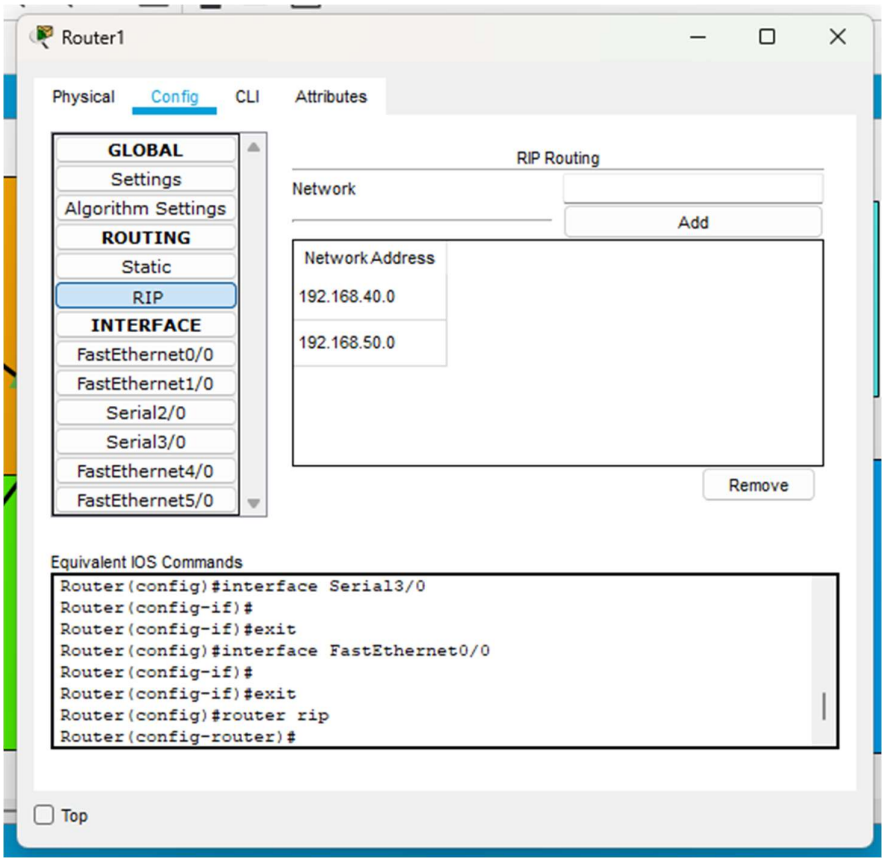
For router0



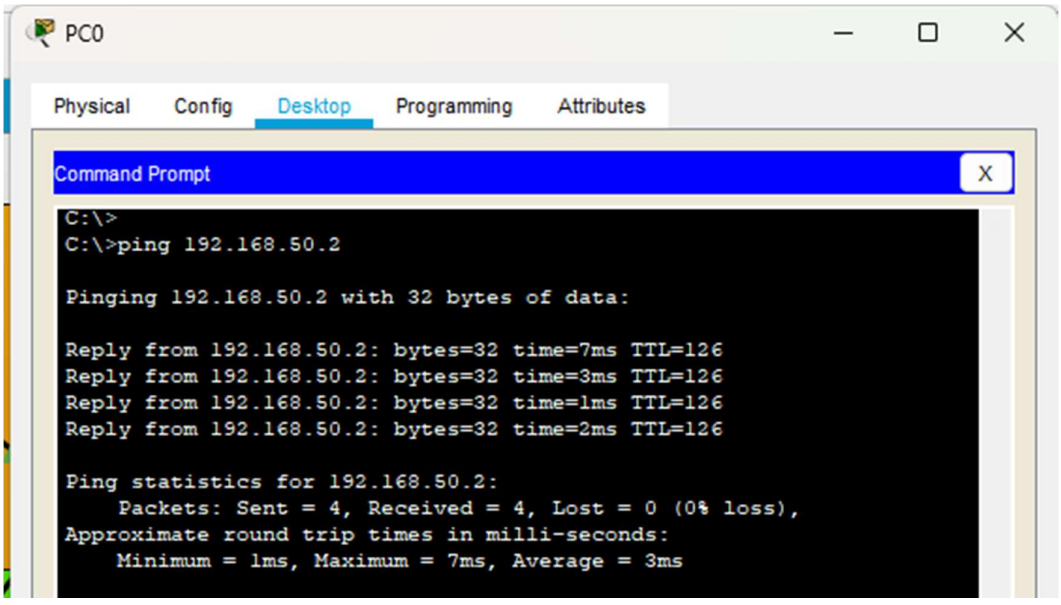
Router2

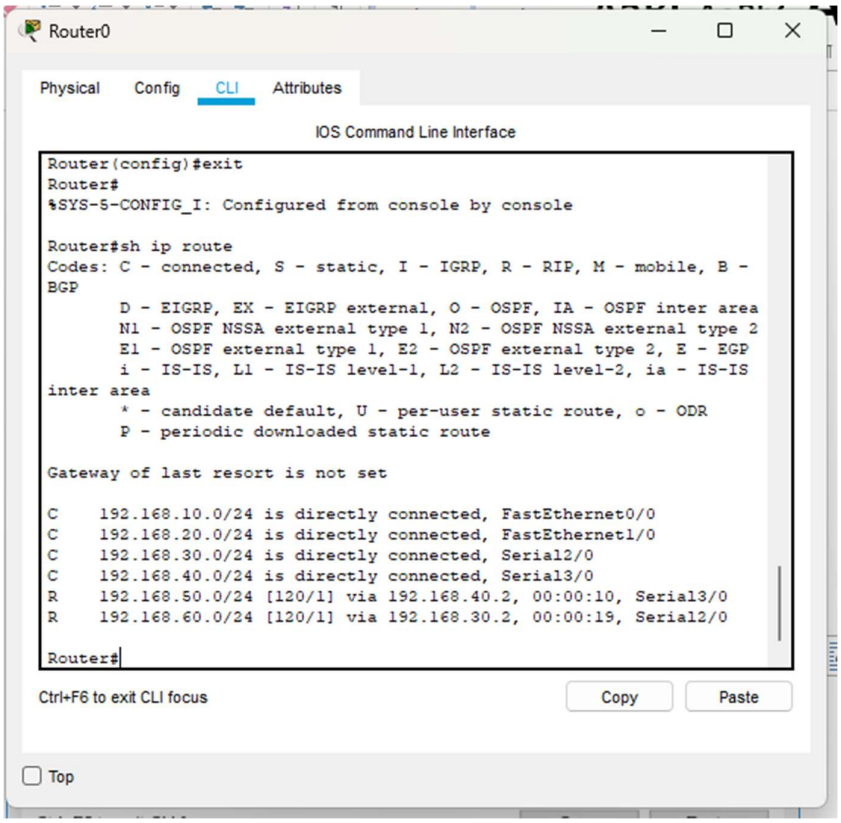


Router1



Now we ping, Server0 from PC0





Routing Table

```
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    192.168.10.0/24 is directly connected, FastEthernet0/0
C    192.168.20.0/24 is directly connected, FastEthernet1/0
C    192.168.30.0/24 is directly connected, Serial2/0
C    192.168.40.0/24 is directly connected, Serial3/0
R    192.168.50.0/24 [120/1] via 192.168.40.2, 00:00:16, Serial3/0
R    192.168.60.0/24 [120/1] via 192.168.30.2, 00:00:21, Serial2/0

Router#
```

Ctrl+F6 to exit CLI focus Copy Paste