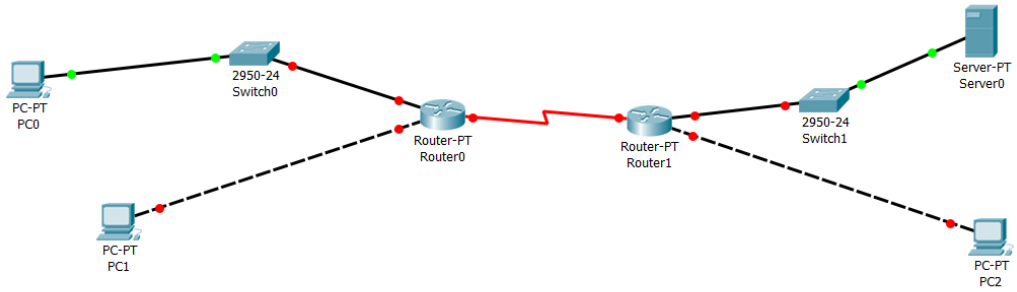
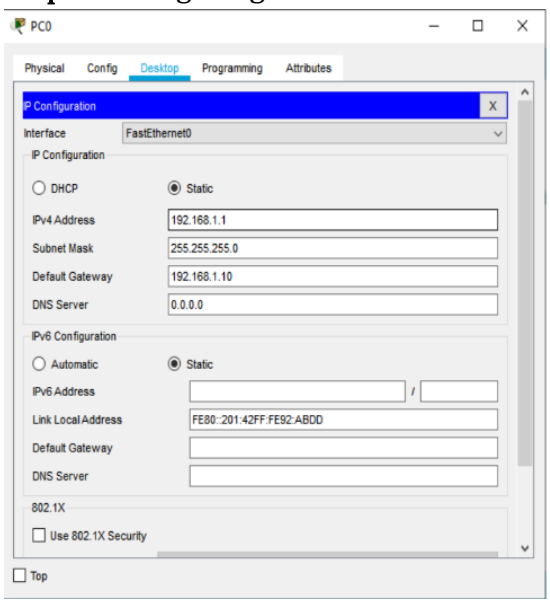
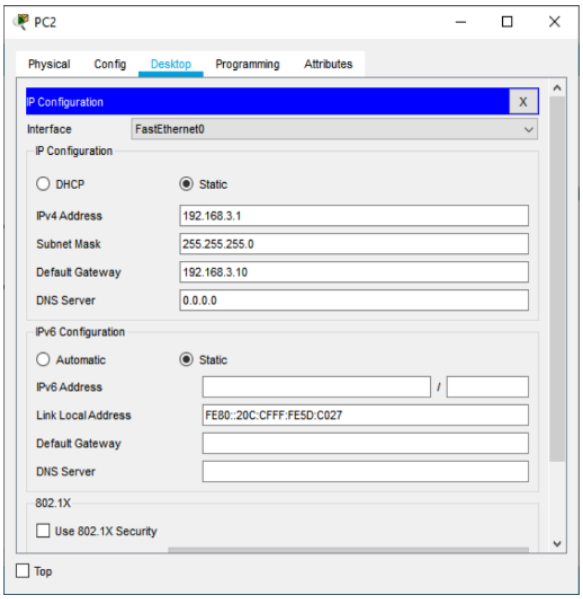
PRACTICAL NO:04

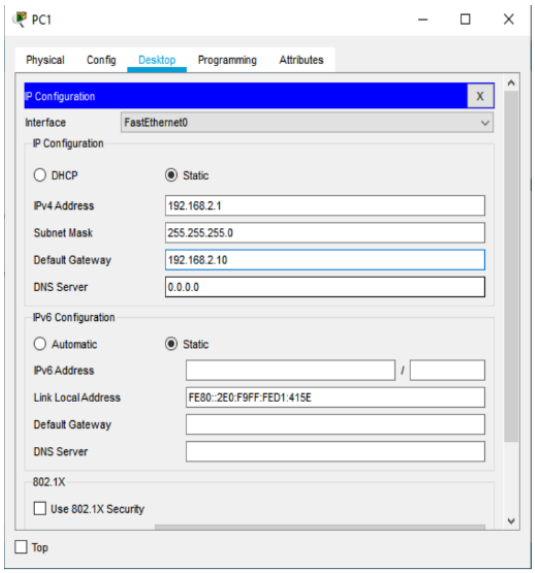
Step 1: Putting together all the devices and connecting them through cables.

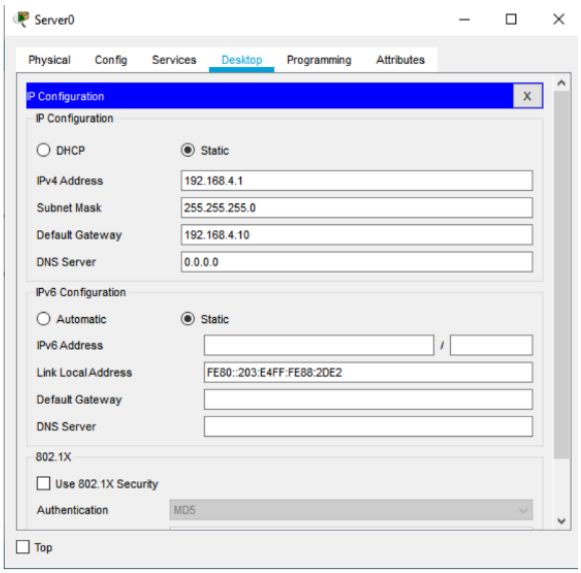


Step 2: Configuring IP addresses of End Devices.

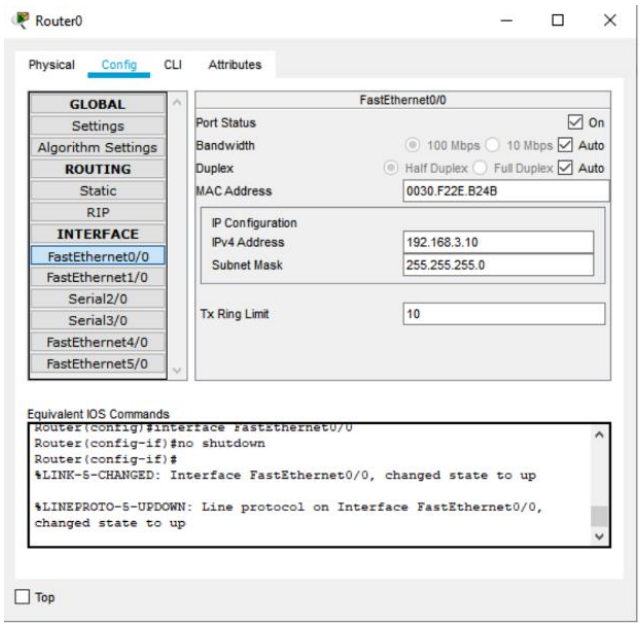


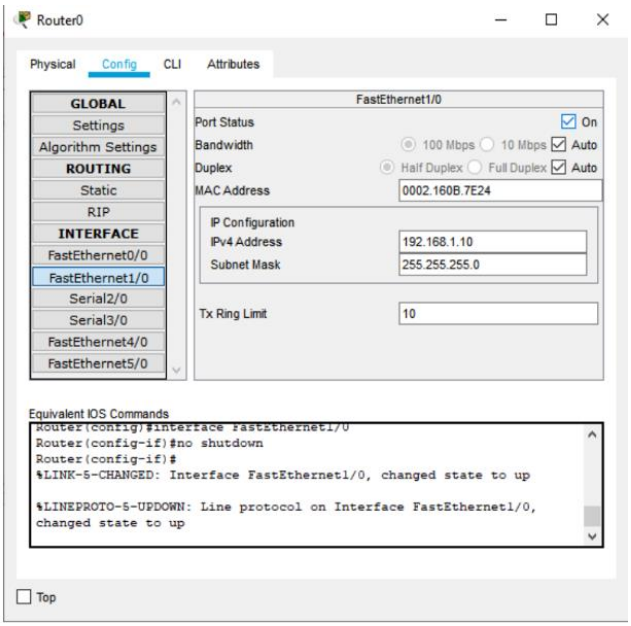


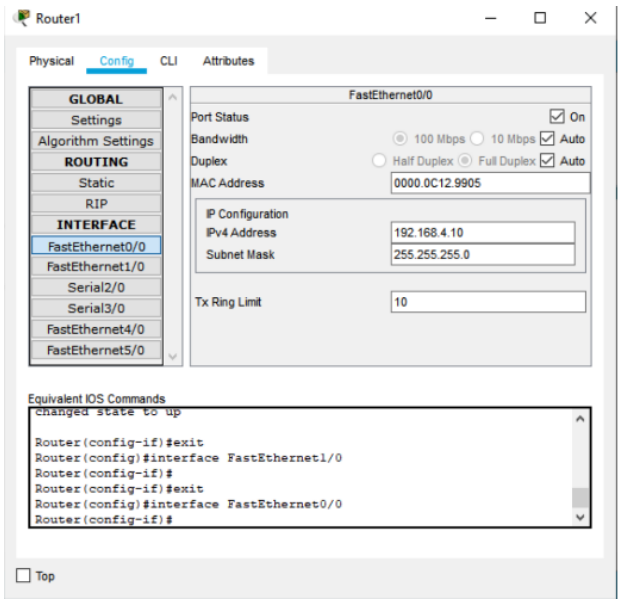


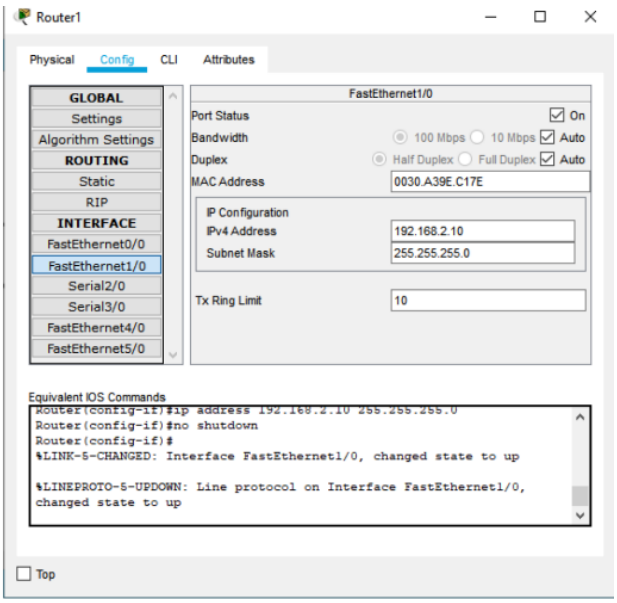


Step3: Configuring IP addresses on Routers / Gateways and switching them on.

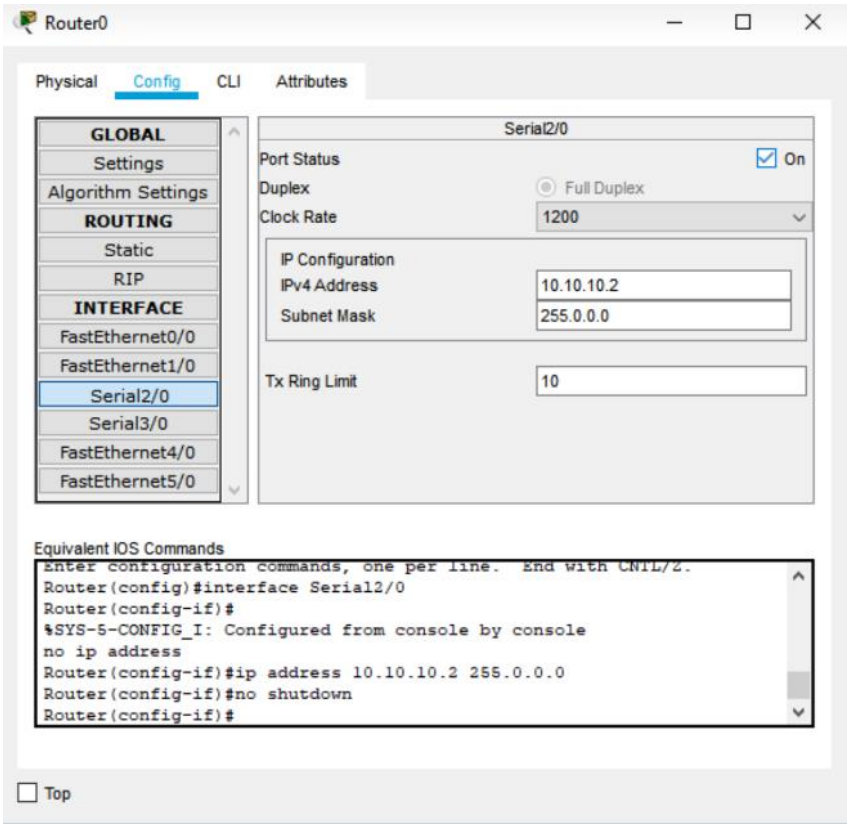


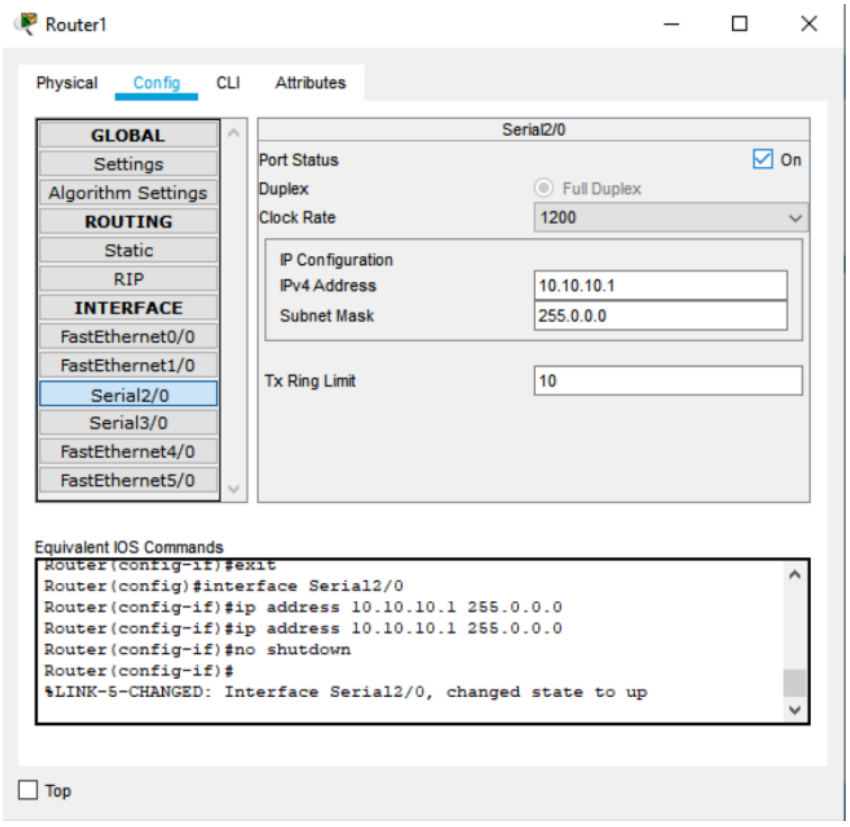




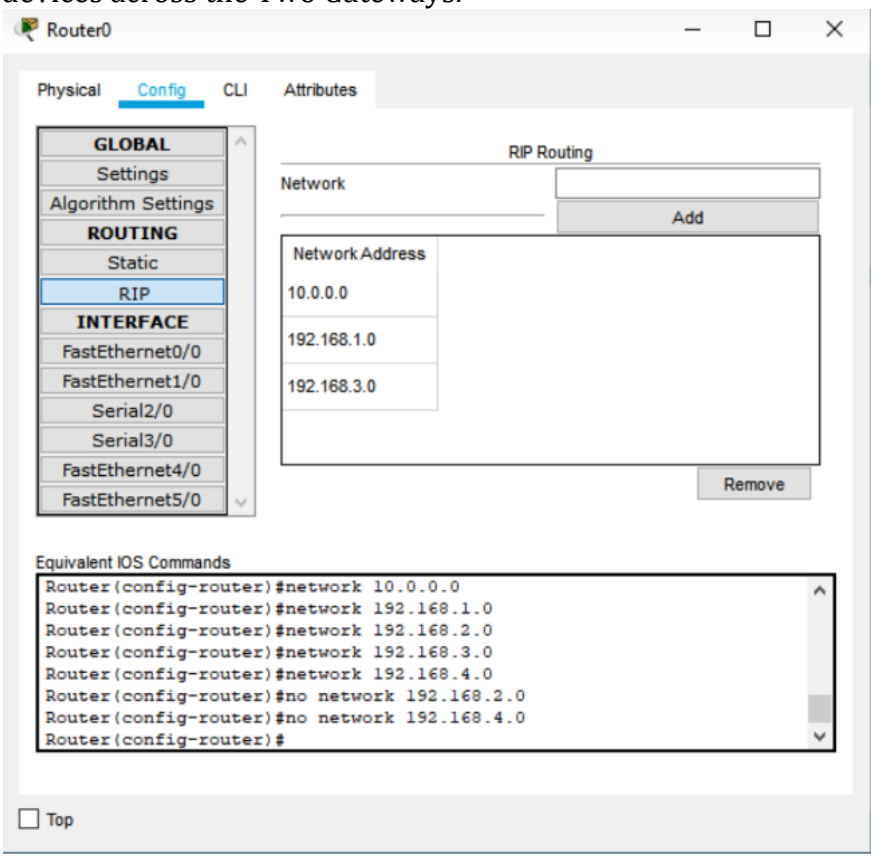


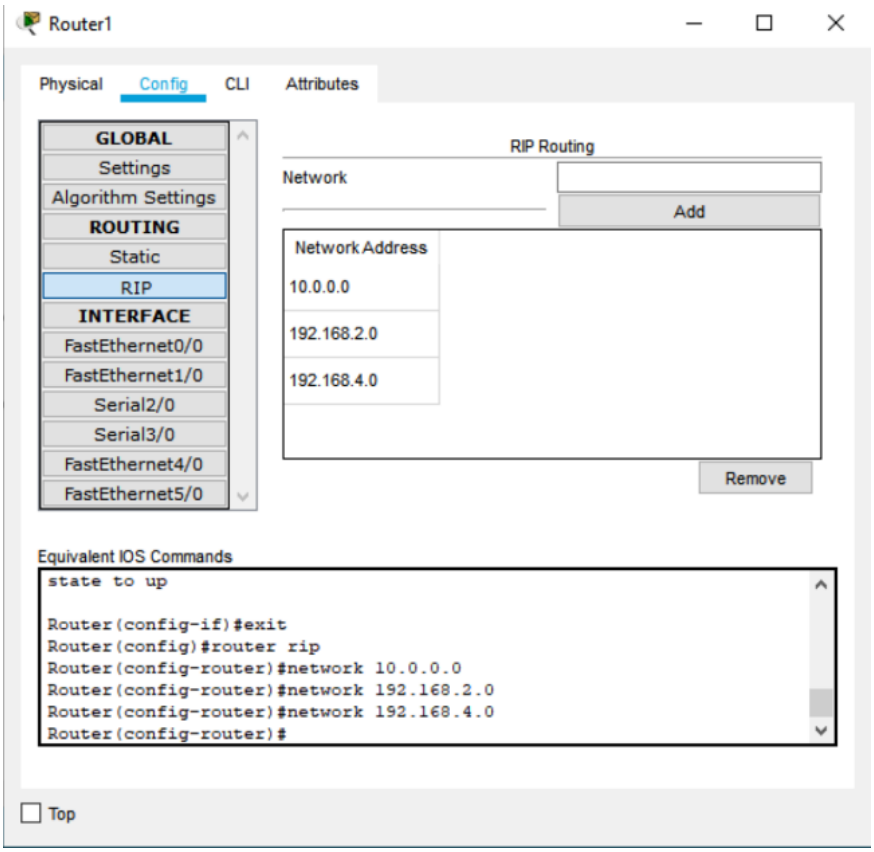
Step 4: Configuring IP addresses for Router-to-Router Serial Communication and switching it on.



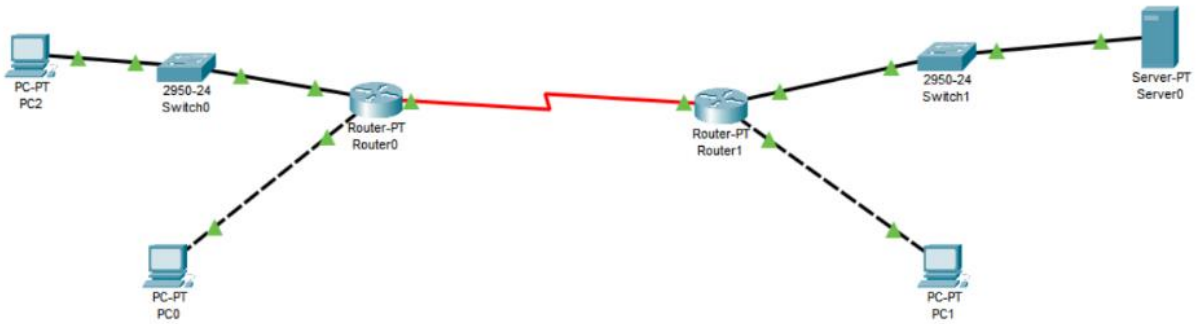


Step 5: Configuring RIP Routing Protocol for Communication between all the devices across the Two Gateways.





Step 6: Checking if all the end devices across the network can communicate with each other.




```
Router#sh 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, Serial2/0
R    192.168.1.0/24 [120/1] via 10.10.10.2, 00:00:20, Serial2/0
C    192.168.2.0/24 is directly connected, FastEthernet1/0
R    192.168.3.0/24 [120/1] via 10.10.10.2, 00:00:20, Serial2/0
C    192.168.4.0/24 is directly connected, FastEthernet0/0
```

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Successful	PC2	PC1	ICMP		0.000	N	0
	Successful	PC2	Server0	ICMP		0.000	N	1
	Successful	PC0	PC1	ICMP		0.000	N	2

All the end devices can successfully communicate with each other.