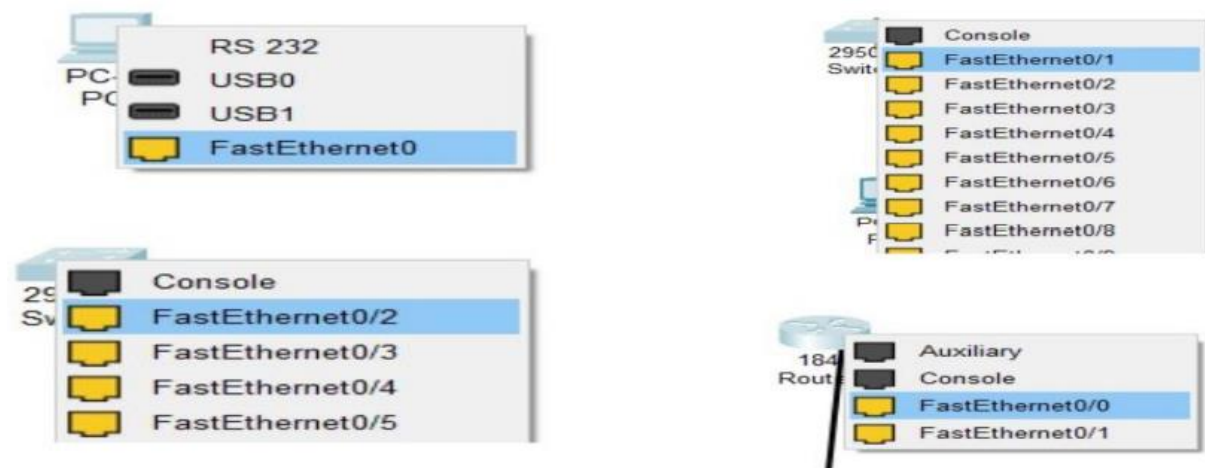


Assignment: 07

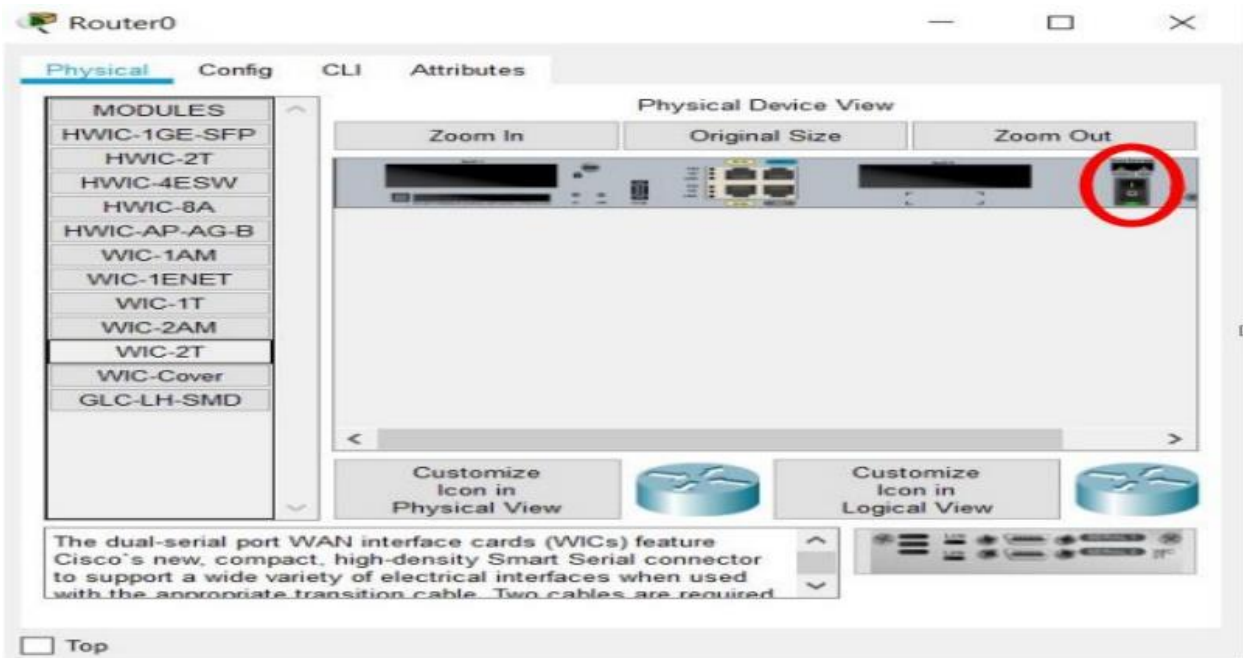
Problem definition: Use packet Tracer tool for configuration of 3 router network using one of the following protocol RIP/OSPF/BGP.

Network Topology:

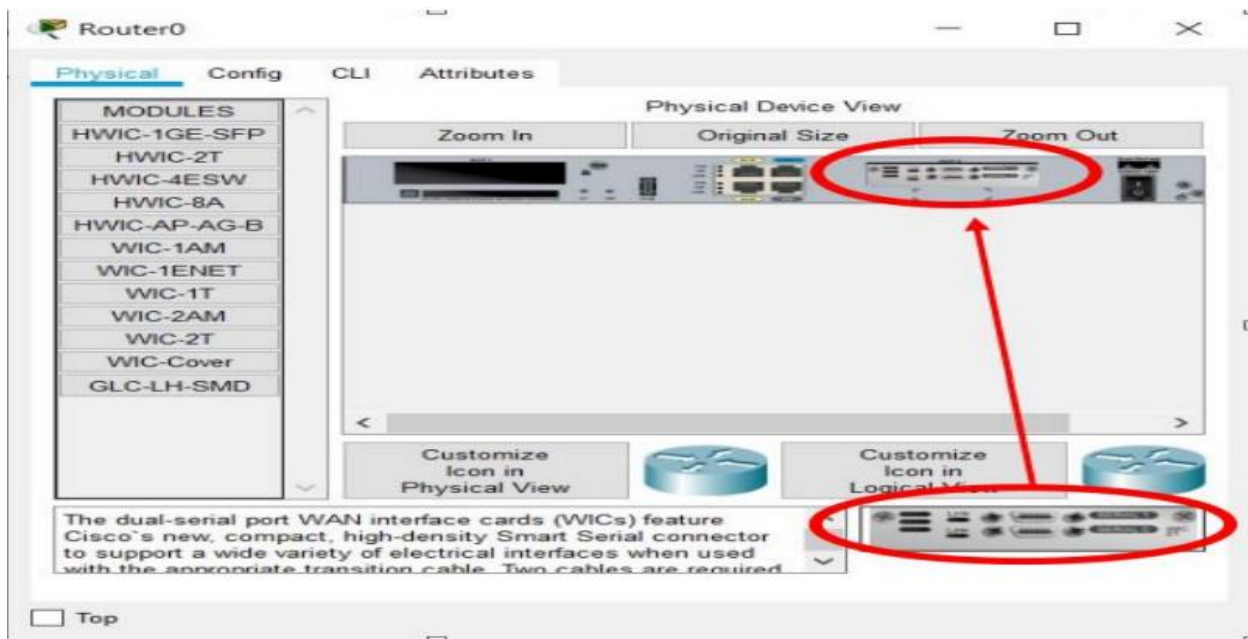
1. Drag and drop PC from End Devices.
2. Drag and drop switch (2950-24) for each network and router (1841) for each network.
3. Connect the PC and switch using Copper straight through cable in fast ethernet ports of both PC and switch.
4. Repeat Step 3 to connect switch to router.



5. As by default not many ports are available on routers, we need to add some extra serial ports to form the network.
6. To add the serial ports click on the router go to PHYSICAL ----> WIC-2T.
7. Turn off the router by toggling(click) the switch. (FOR ALL ROUTERS)

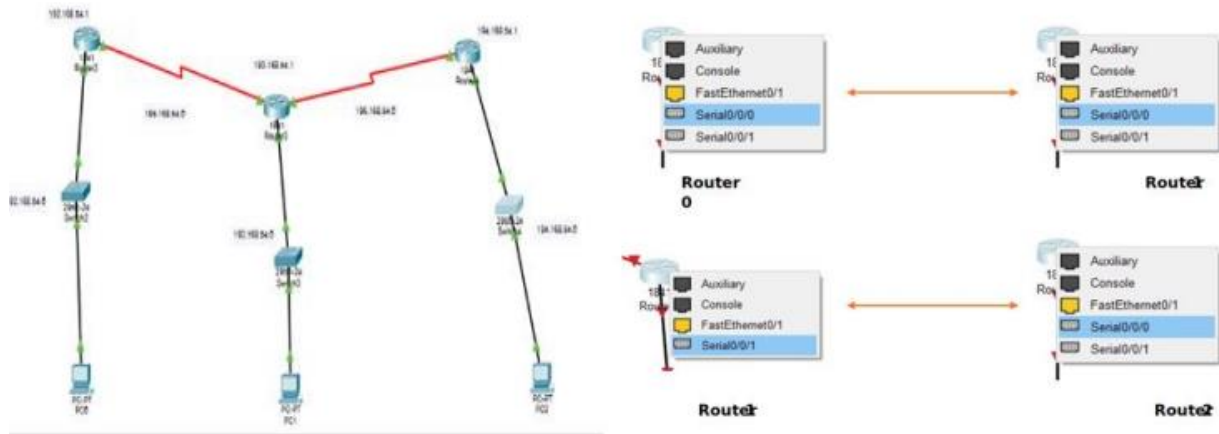


8. Now Drag and drop the ports image from bottom just to the left of switch



9. Now toggle(click) the switch to turn on the router.

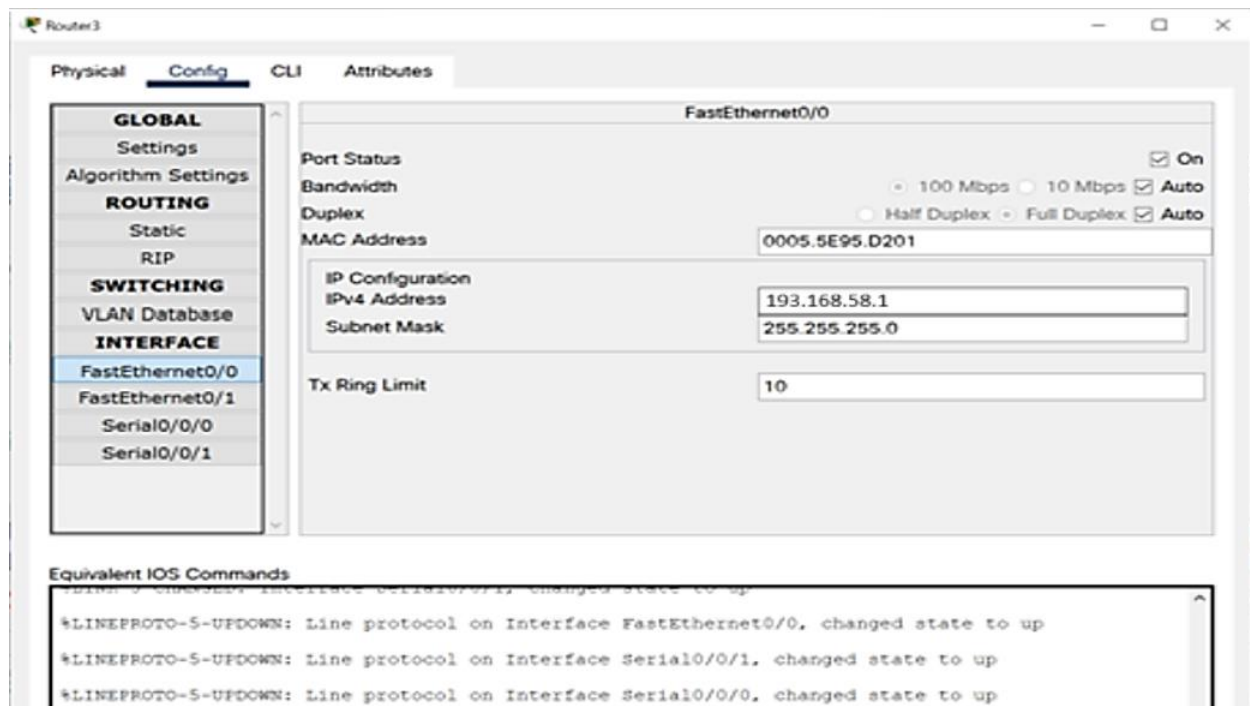
10. Now to connect the routers select the **serial DTE cable** and connect the routers using the serial ports.



Ip Address Configuration

ADDING gateway in router

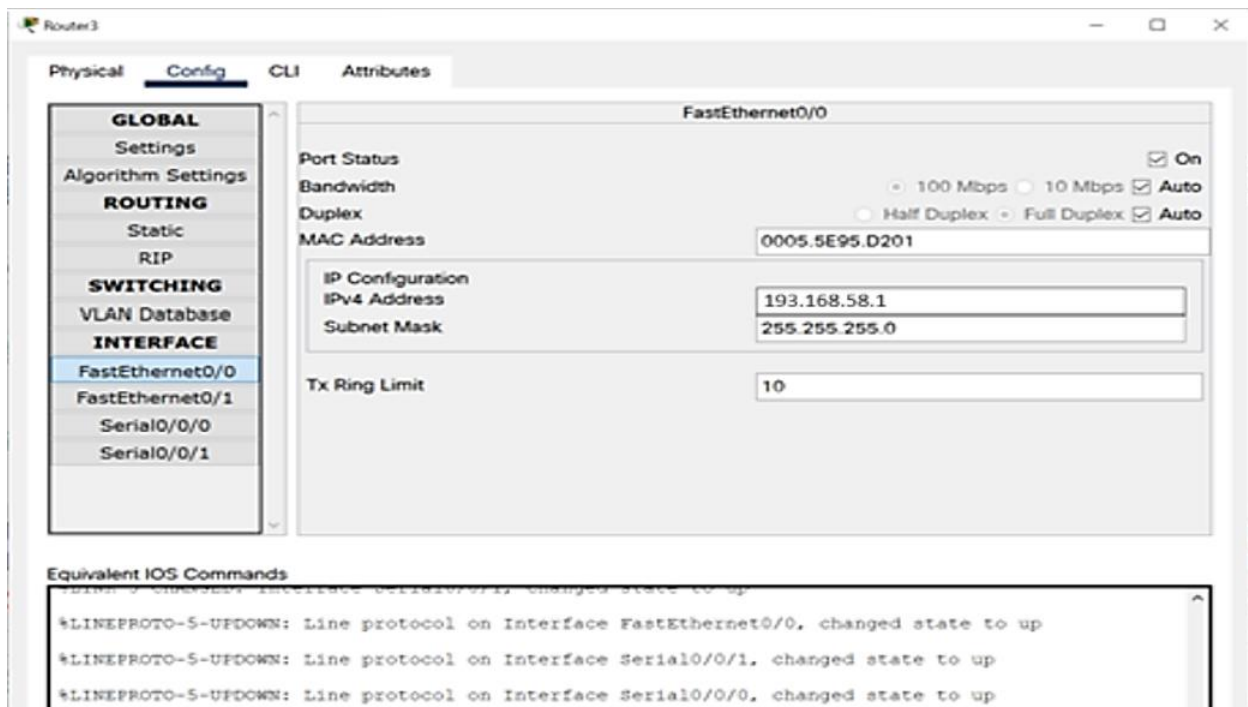
1. Click on the router.
2. Go to Config -> Fast ethernet 0/0.
3. Then add the gateway for each network in all the routers.
4. Then turn on the port.





CONNECTING ROUTERS (SERIAL CONFIG)

After configuring set the port status on.

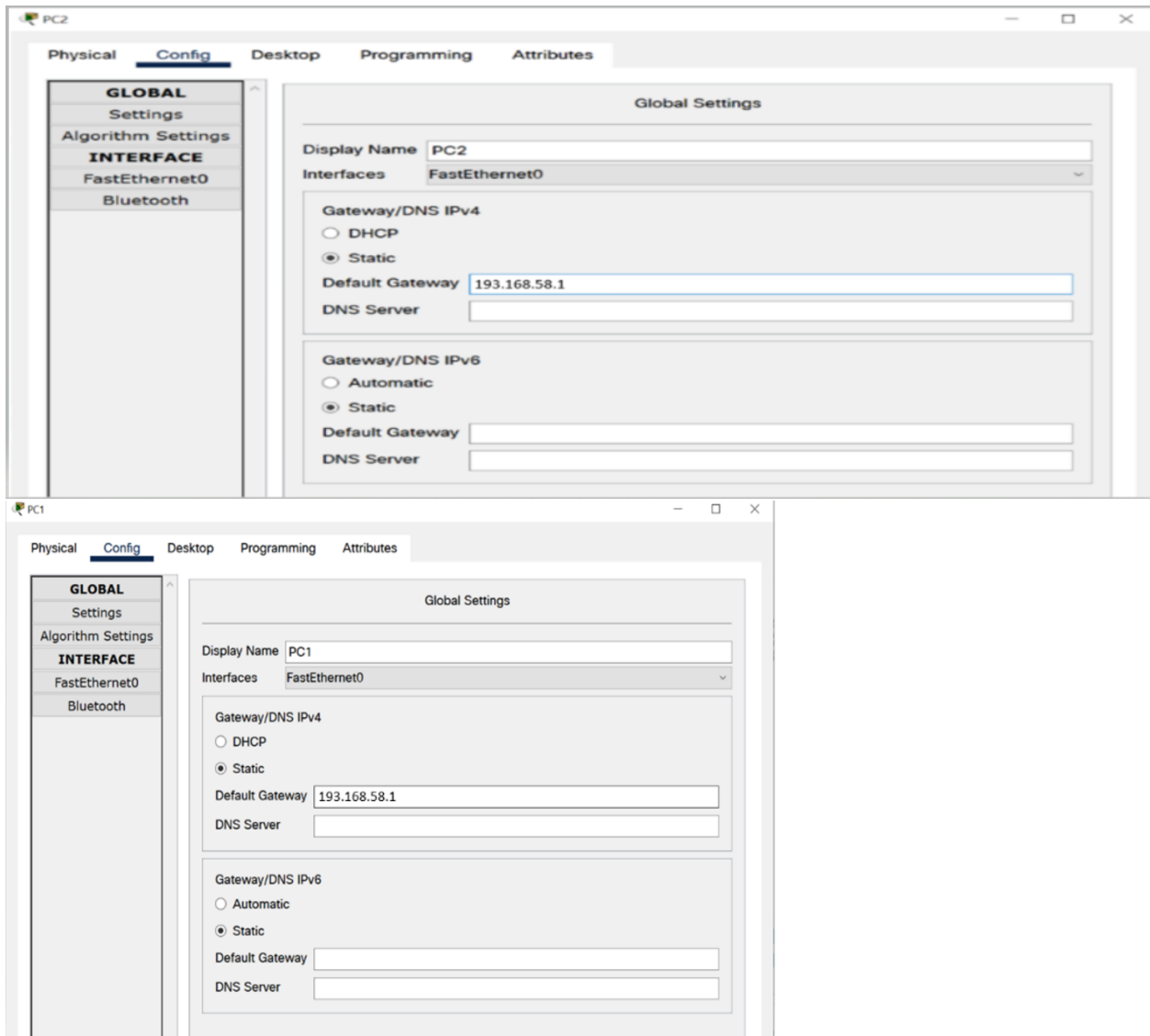


1. Assigning Ip's addresses to the PC
2. Click on the PC.
3. Go to Desktop -> IP configuration.
4. Add the Ip address and the gateway.

Configuring RIP

1. Adding networks to communicate between (for each router)

2. Click on the router.
3. Go to Config -> RIP.
4. Add the network Id's for each network (192.168.58.0, 193.168.58.0, 194.168.58.0, 195.168.58.0, 196.168.58.0).
5. Then click Add.



Simulation Panel				
Event List				
Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC0	ICMP
	0.000	--	PC0	ICMP
	0.001	PC0	Switch2	ICMP
	0.001	--	PC0	ICMP
	0.002	PC0	Switch2	ICMP
	0.002	Switch2	Router2	ICMP
	0.003	Switch2	Router2	ICMP
	0.003	Router2	Router3	ICMP
	0.003	--	Router3	ARP
	0.004	Router2	Router3	ICMP
	0.004	Router3	Switch3	ARP
	0.005	Router3	Router4	ICMP
	0.005	Switch3	PC1	ARP
	0.006	Router4	Switch4	ICMP
	0.006	PC1	Switch3	ARP
	0.007	Switch4	PC2	ICMP
	0.007	Switch3	Router3	ARP
	0.008	PC2	Switch4	ICMP
	0.009	Switch4	Router4	ICMP
	0.010	Router4	Router3	ICMP
	0.011	Router3	Router2	ICMP
	0.012	Router2	Switch2	ICMP
	0.013	Switch2	PC0	ICMP
<div>Reset Simulation</div> <div><input checked="" type="checkbox"/> Constant Delay</div> <div>Captured to: 0.013 s</div>				

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC2	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC0	PC2	ICMP		0.000	N	1	(edit)	(delete)