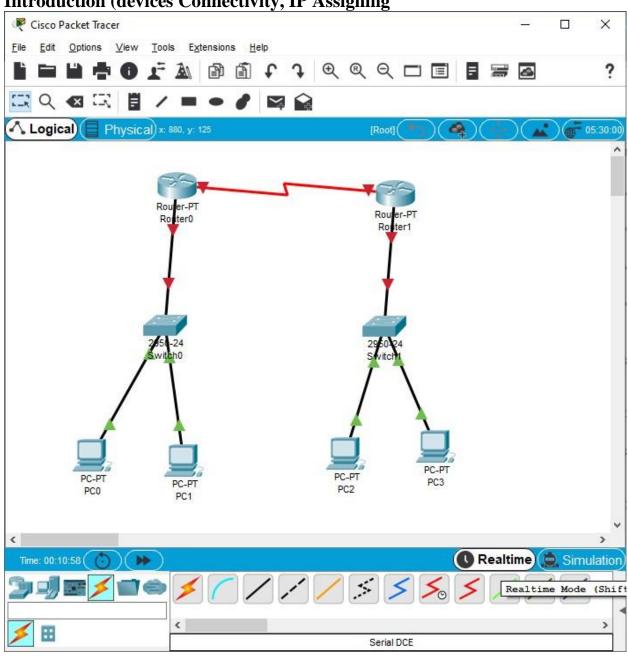
## MALIK ZOHAIB MUSTAFA 01-134192-030 **BSCS-4B**

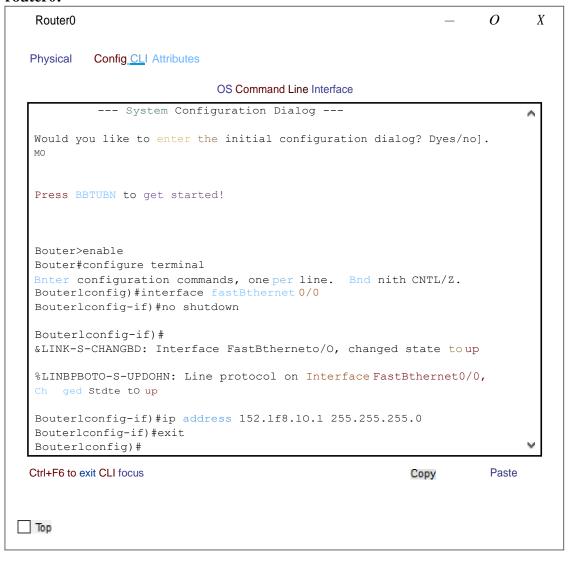
Q1: Configure Open Shortest Path First (OSPF) protocol between three routers

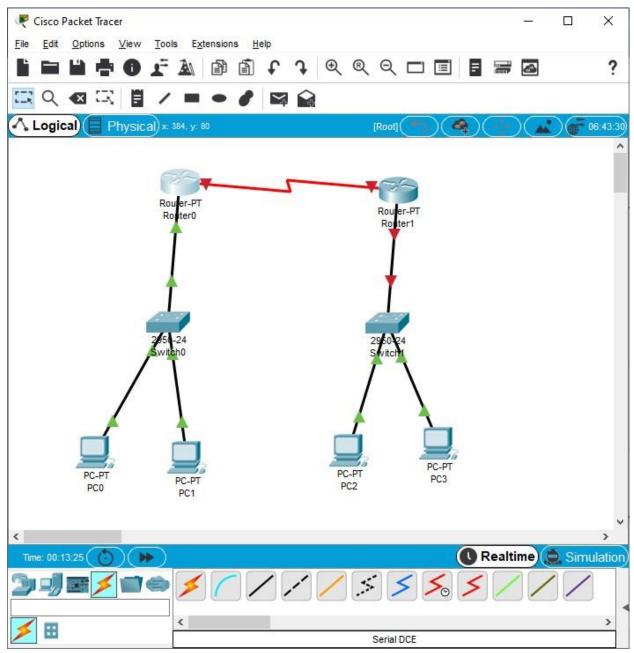
## Tasks:

**Introduction (devices Connectivity, IP Assigning** 

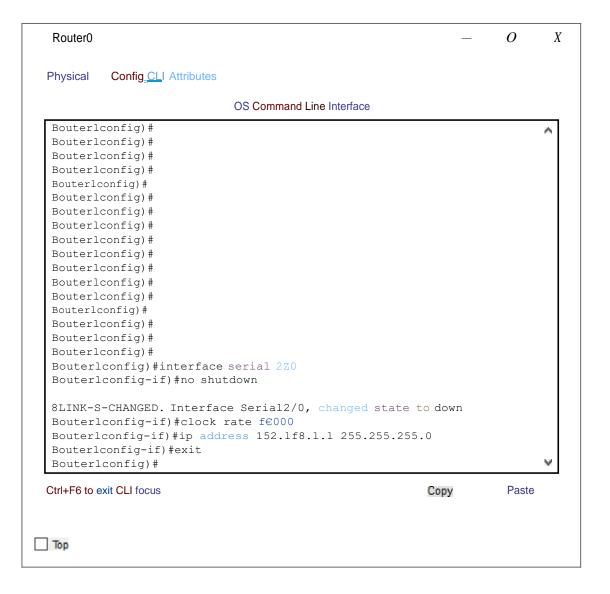


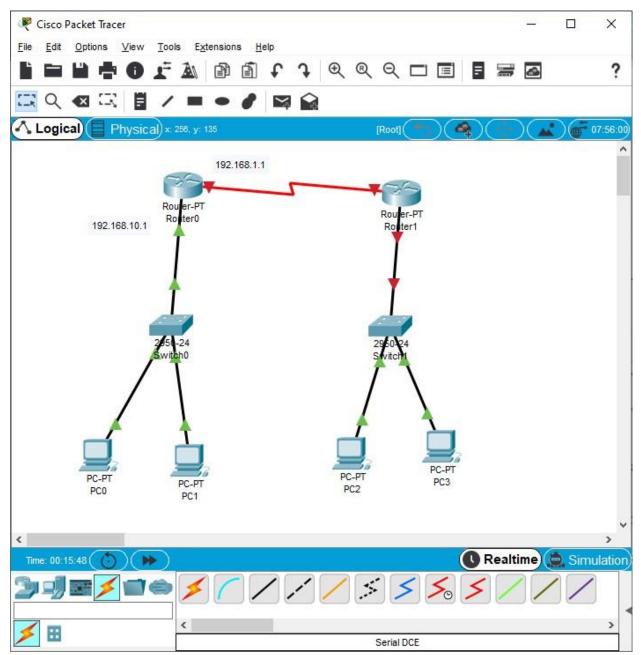
## Giving no shutdown command to port 0/0 of router0 and Assigning IP address to port 0/0 of router0:



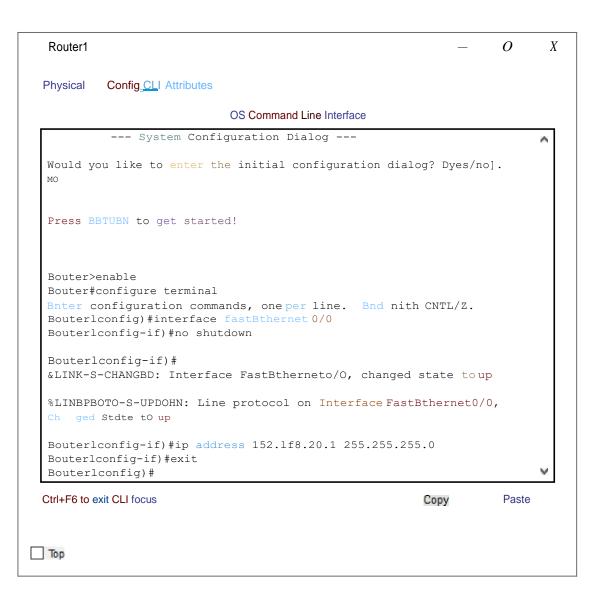


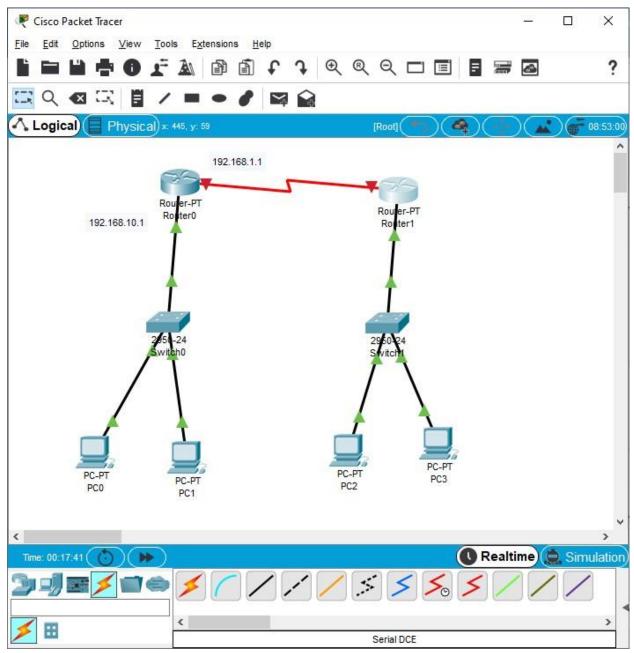
Assigning IP to serial port 2/0 of router0 and giving no shutdown command



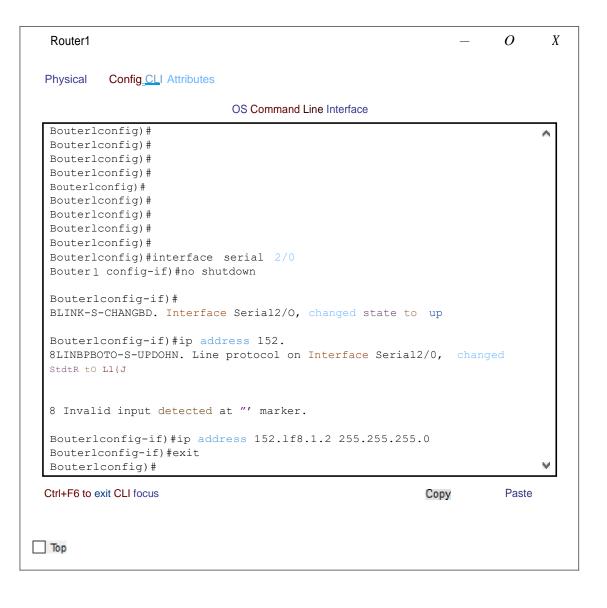


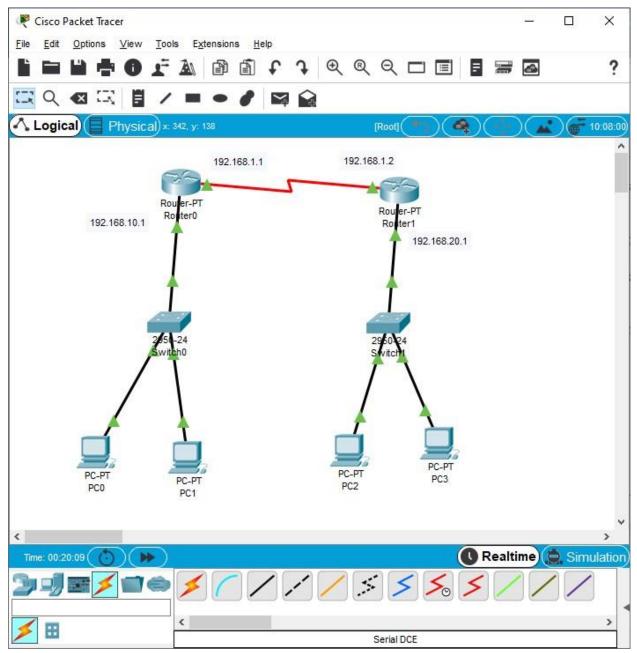
Giving no shutdown command to port 0/0 of router1 and Assigning IP address to port 0/0 of router1:



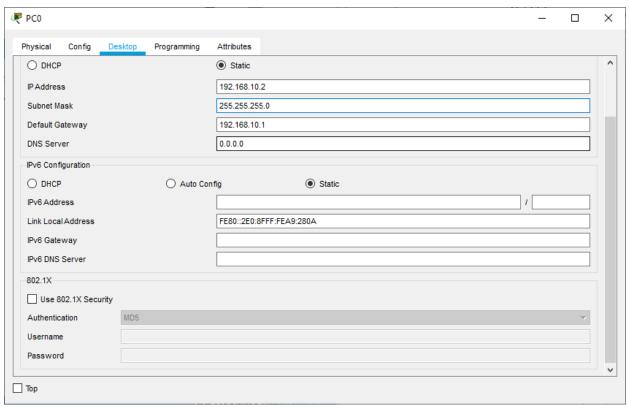


Assigning IP to serial port 2/0 of router1 and giving no shutdown command

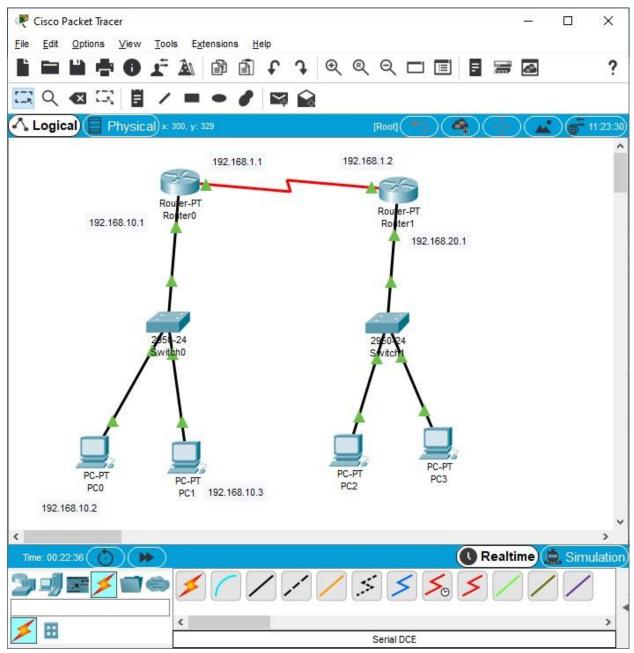




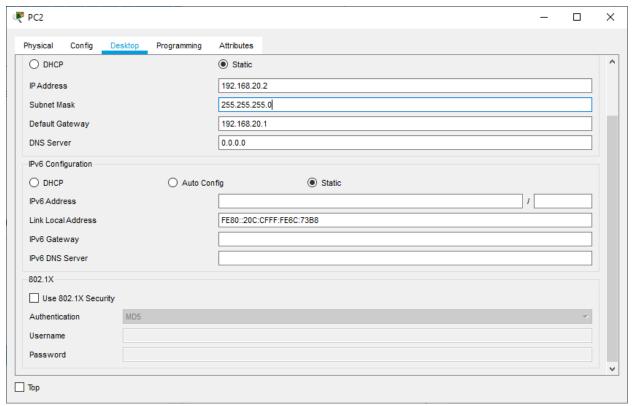
Assigning IP to PC0, which will have a default gate (192.168.10.1) and IP 192.168.10.2, which is connected to router0



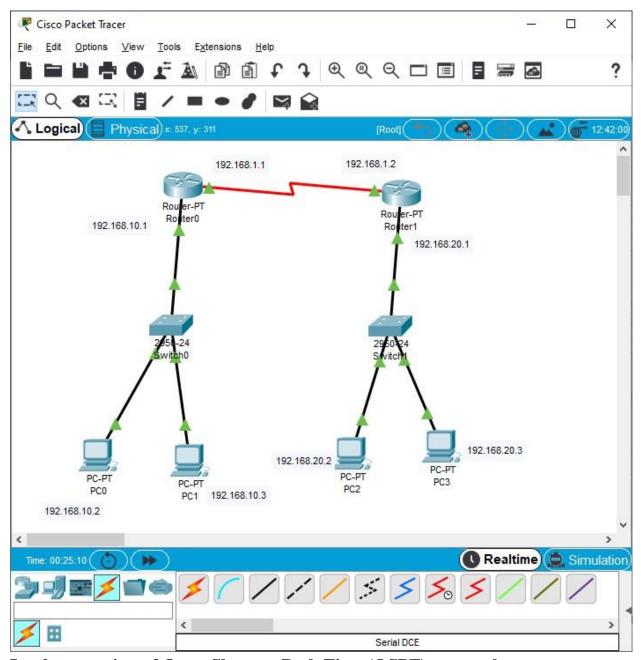
Similarly, same gateway for PC1 with IP 192.168.10.3



Assigning IP to PC2, which will have a default gate (192.168.20.1) and IP 192.168.20.2, which is connected to router1

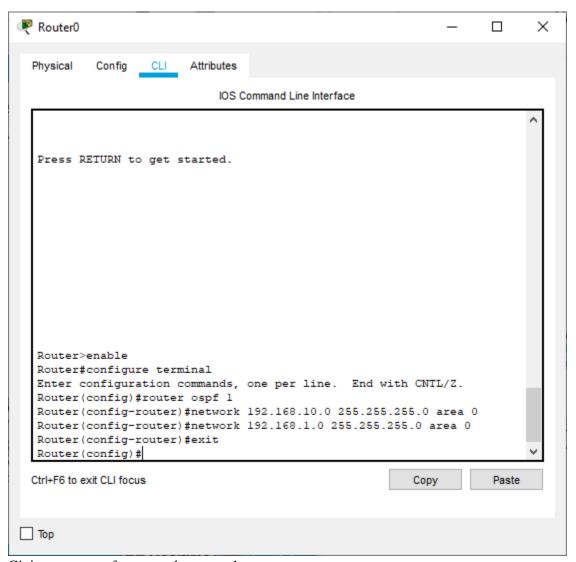


Similarly, same gateway for PC3 with IP 192.168.20.3

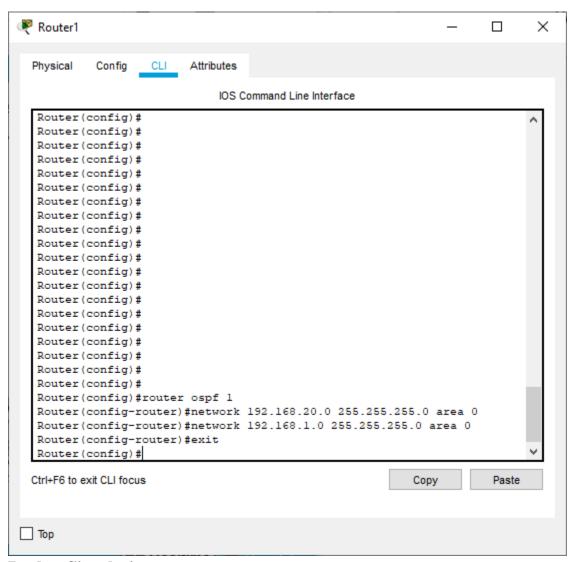


 ${\bf Implementation\ of\ Open\ Shortest\ Path\ First\ (OSPF)\ protocol}$ 

Giving router ospf command to router0

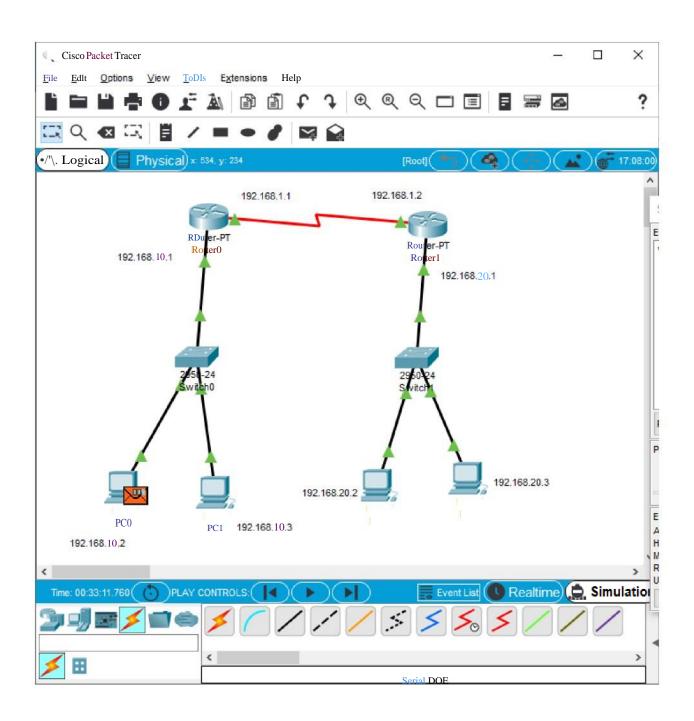


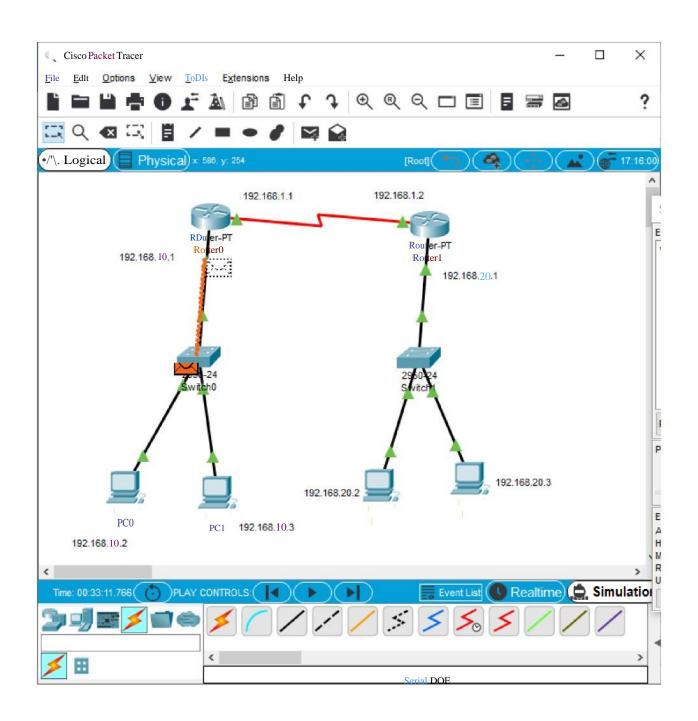
Giving router ospf command to router1

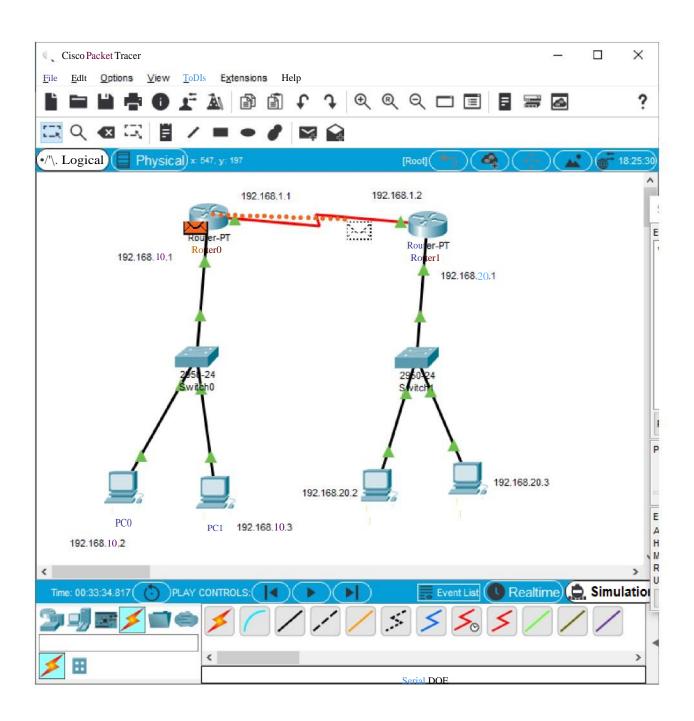


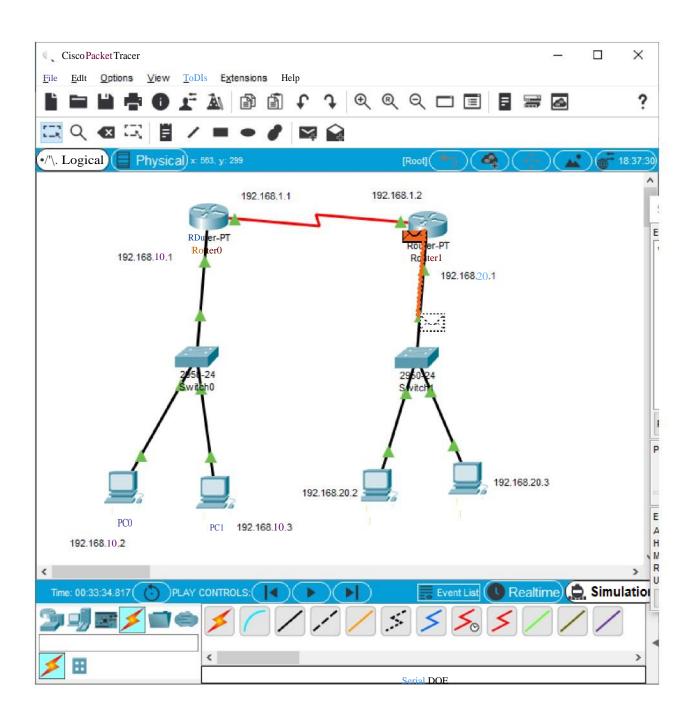
## **Packet Simulation**

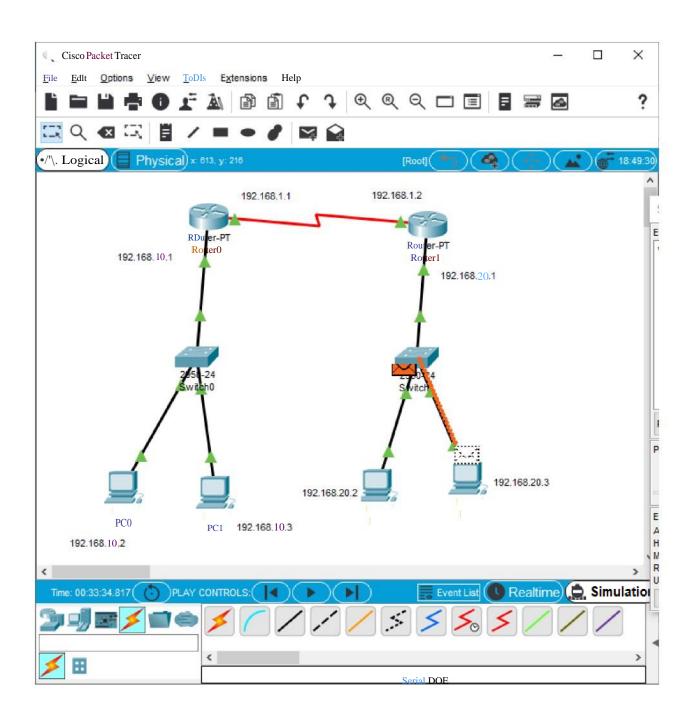
Testing the packet simulation from PC0 to PC3.

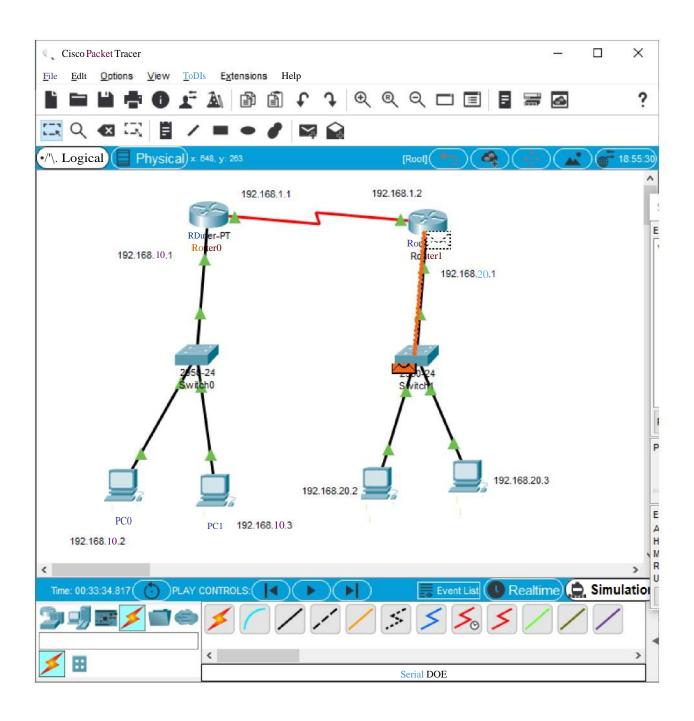


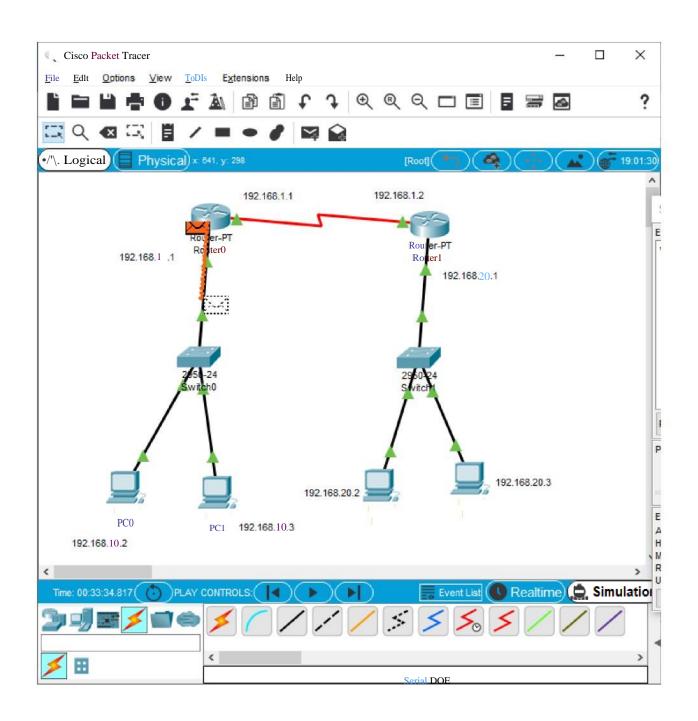


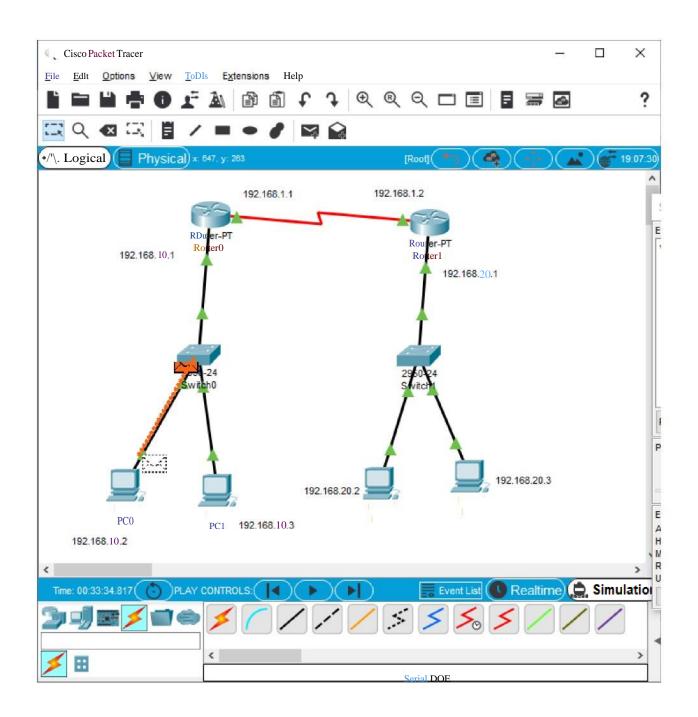


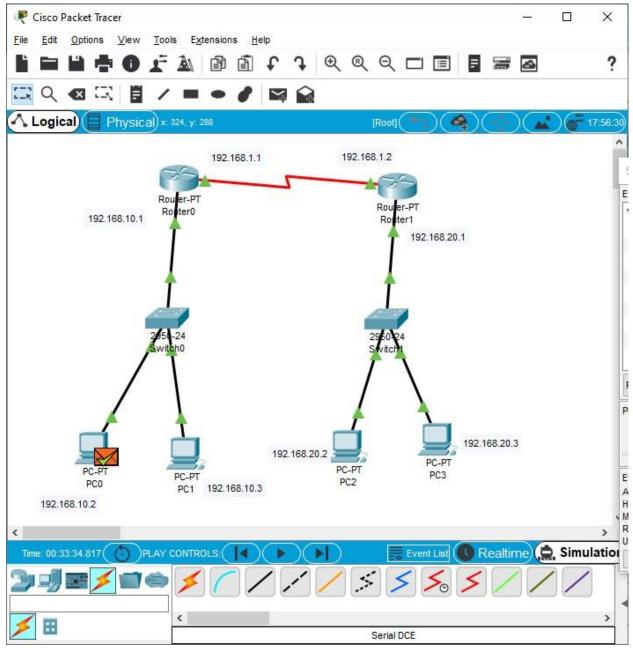






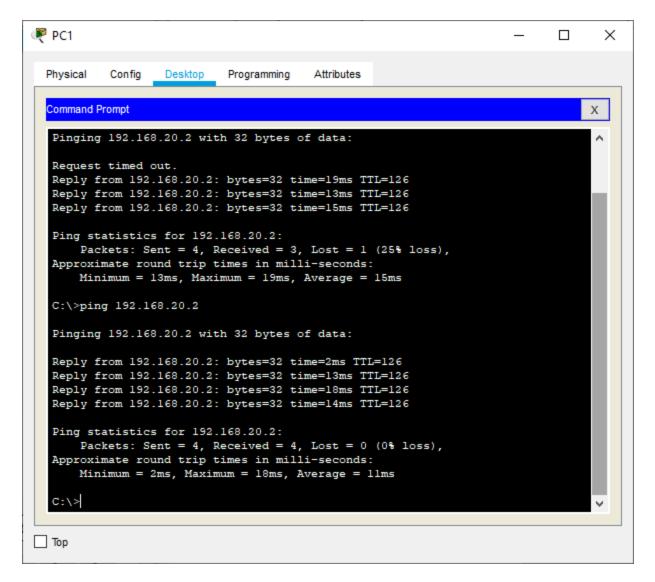






**Connection Testing Between Different Networks** 

Testing the connection between PC1 and PC2 both belongs to different networks.



So, they are communicating.