Name: Sadmanul Hoque

ID: 2021100000021

Batch: 58

Course Title: Computer Networking Lab

Course Code: CSE342.4

Section: 4

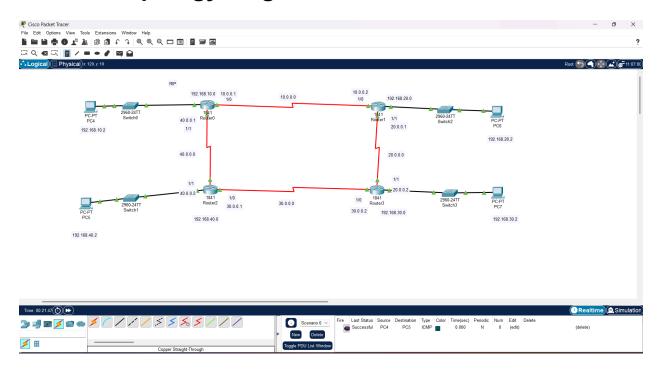
Lab Report No.: 02

Submission Date: 27/09/25

#### Ans to the ques no. 1

## **RIP (Routing Information Protocol):**

## **Network topology diagram:**

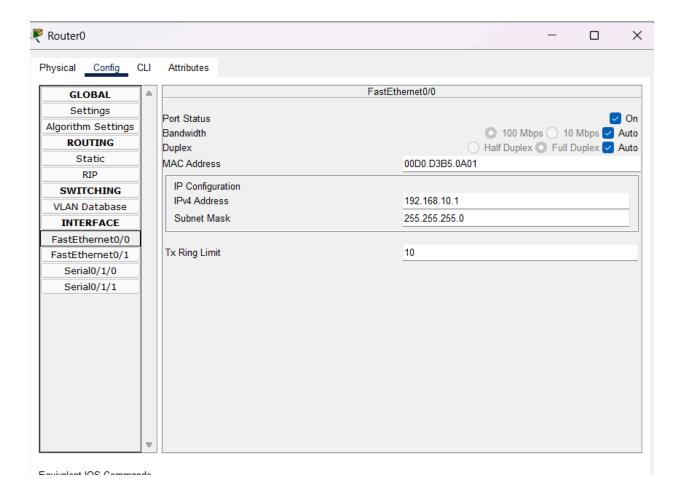


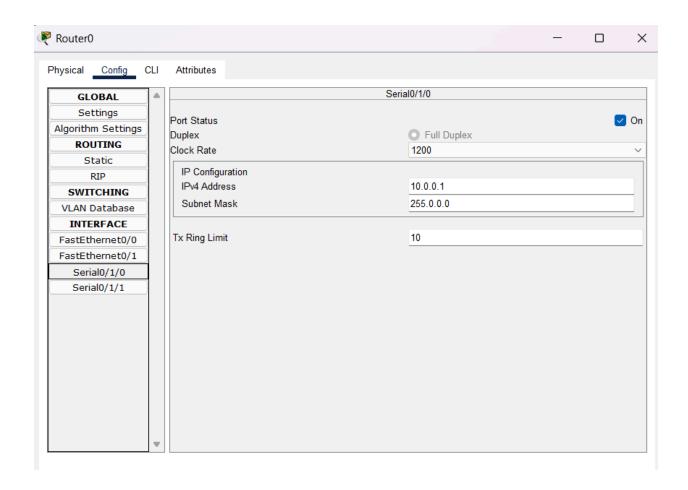
# **Configuration for RIP:**

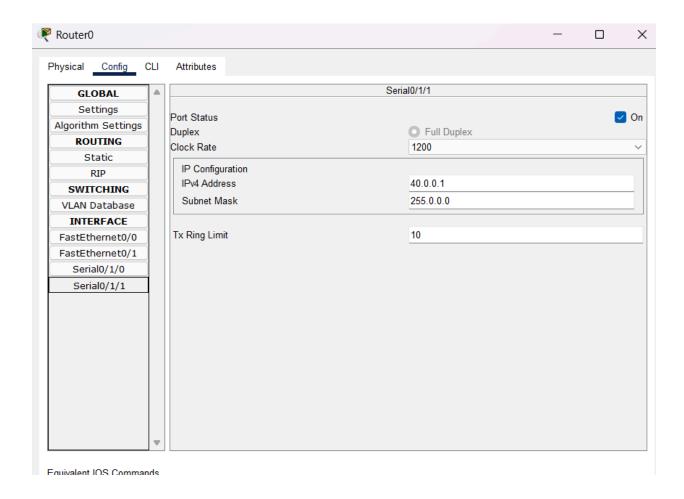
- 1. Take 4 router and install WIC-2T and restart.
- 2. Connect 4 routers using Serial DTE cables.
- 3. Take 1 switch and 1 end device for each router

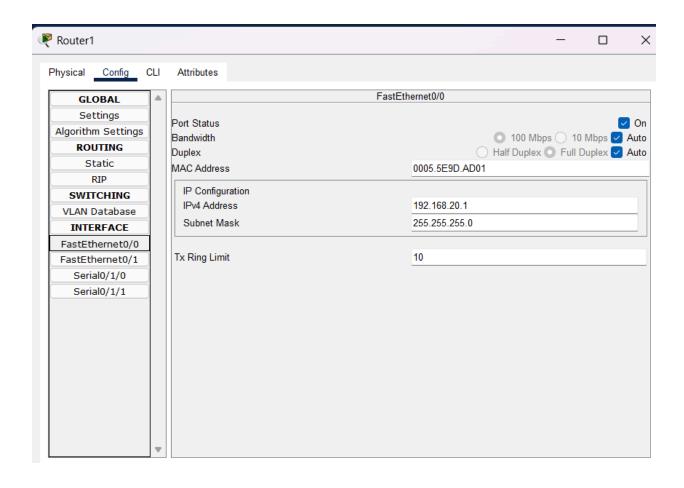
- 4. Connect switch and end device using Copper Straight Through cable.
- 5. Give ip address to the end devices and also router.

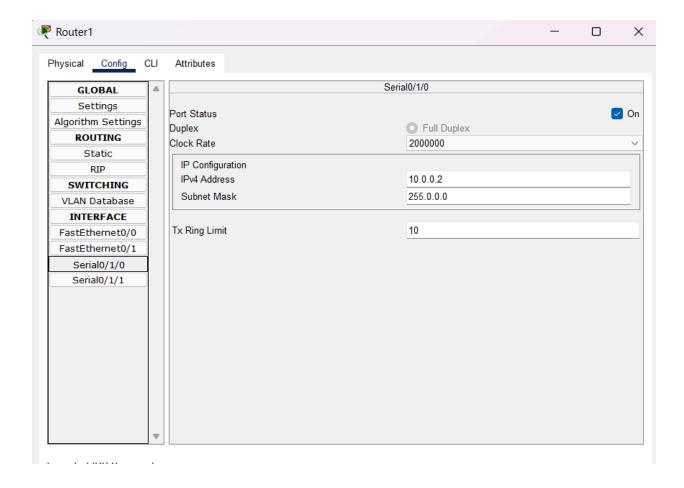
# **Screenshots of configuration:**

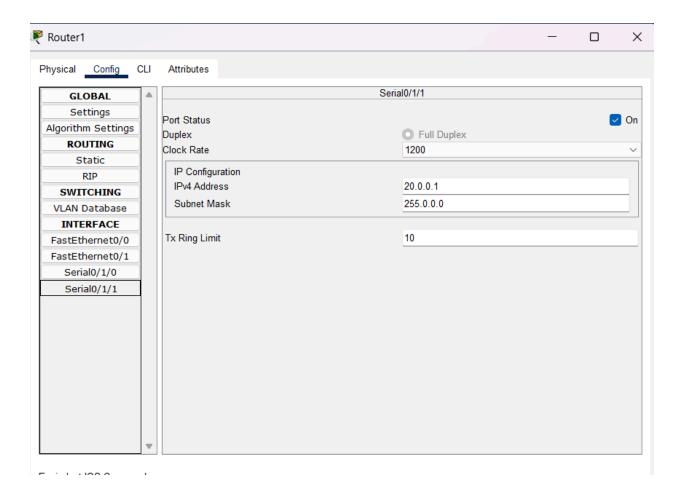


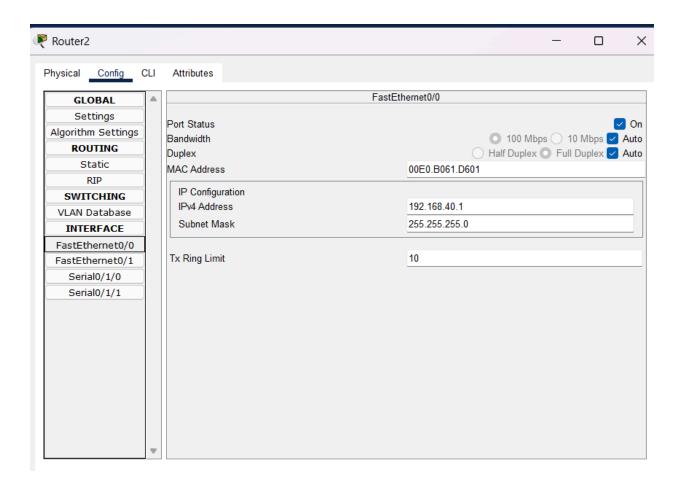


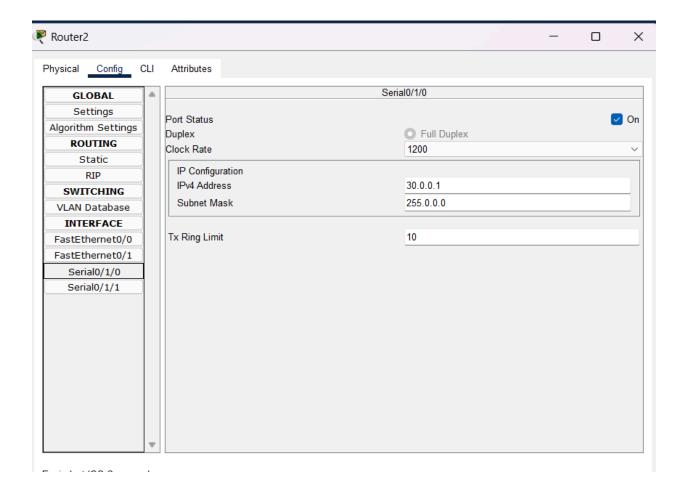


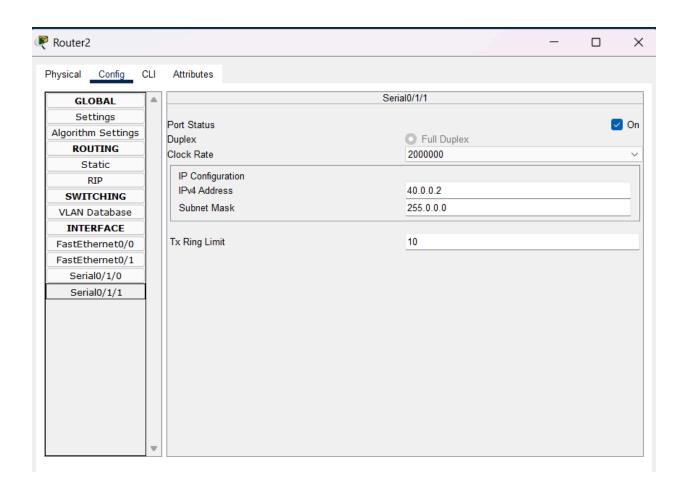


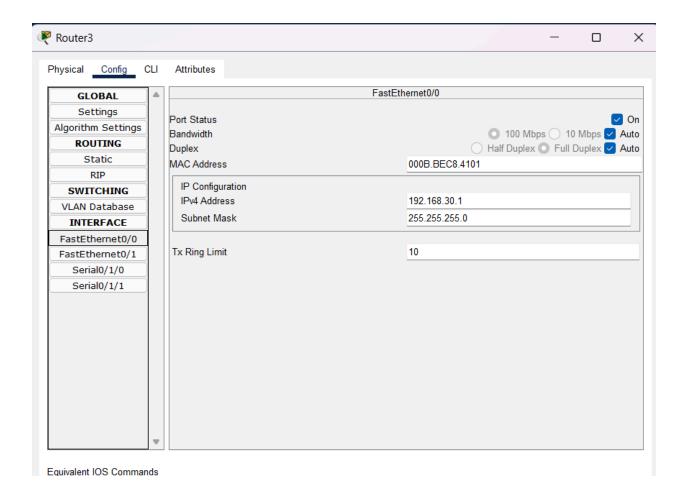


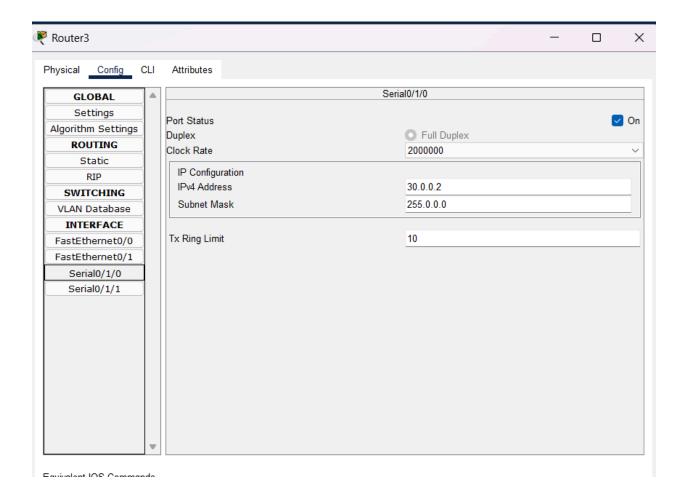


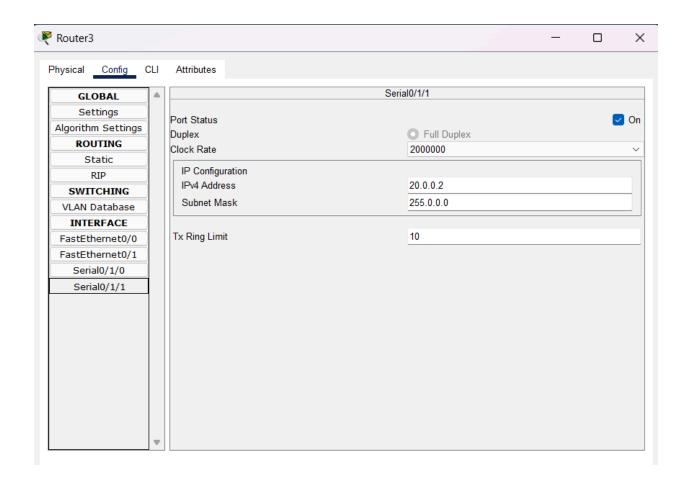


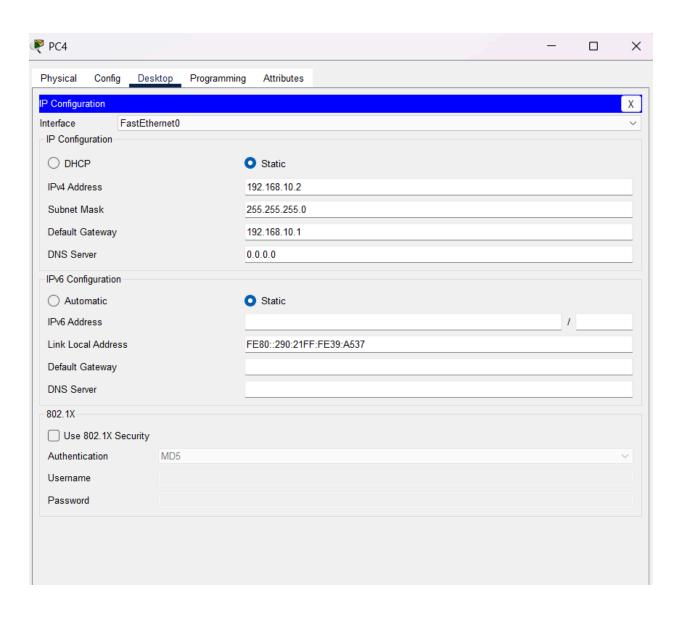


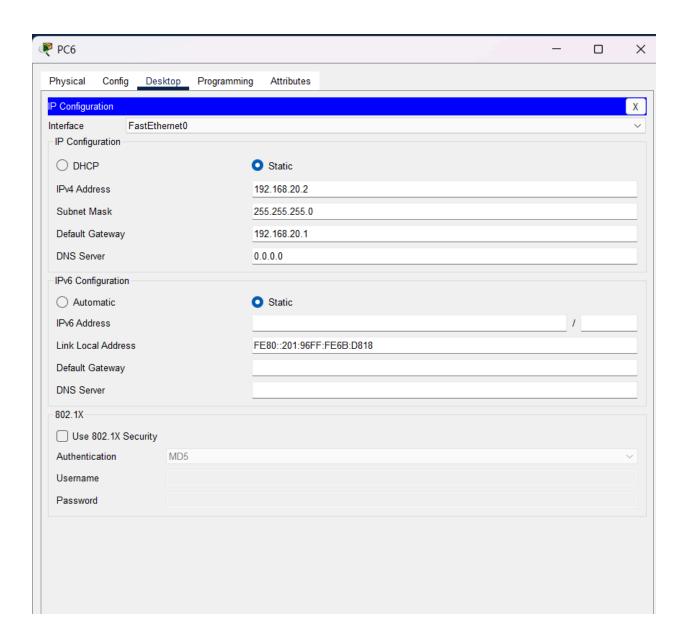


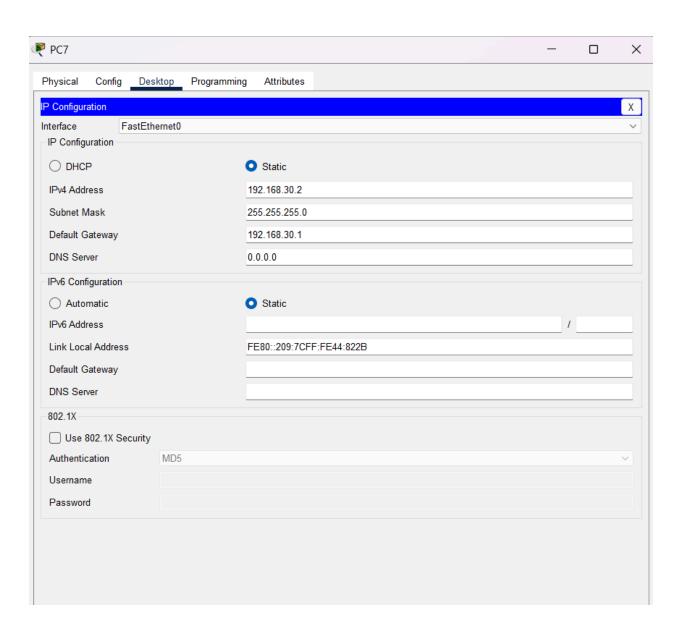


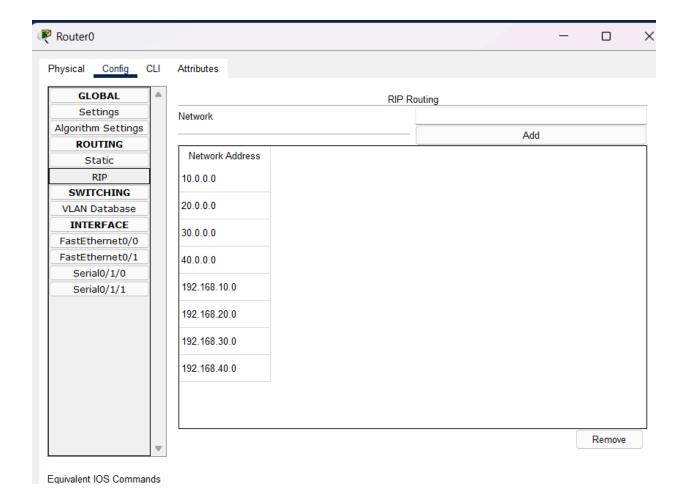


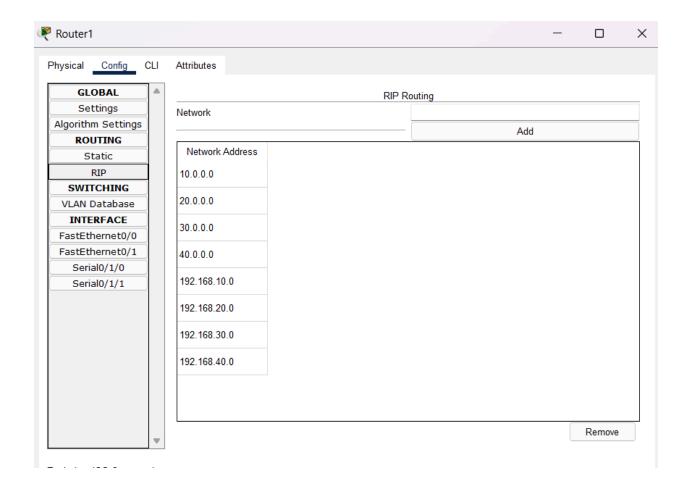


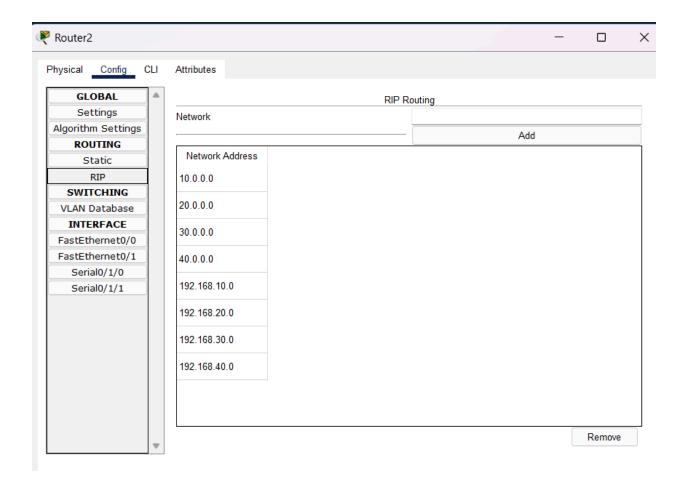


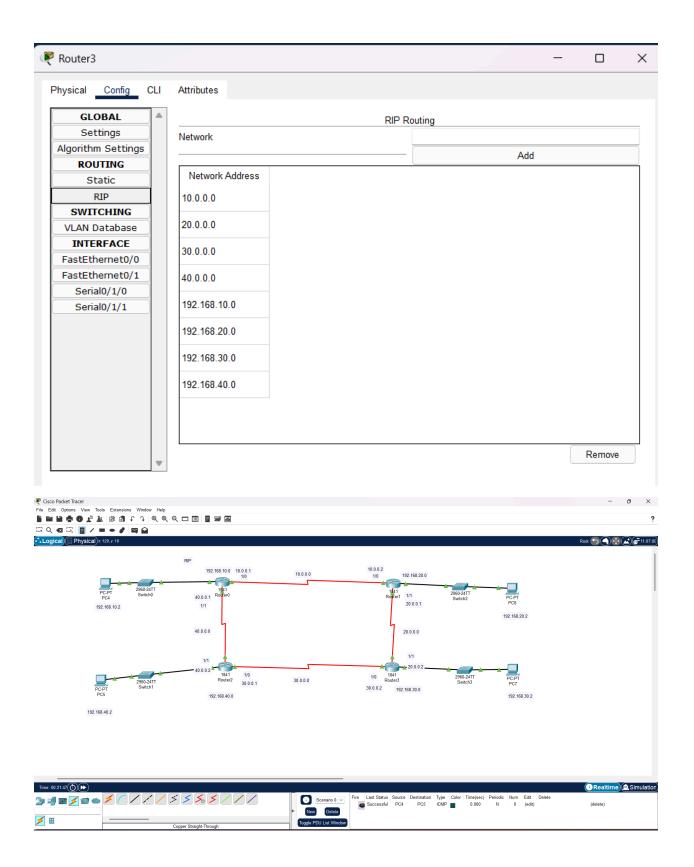








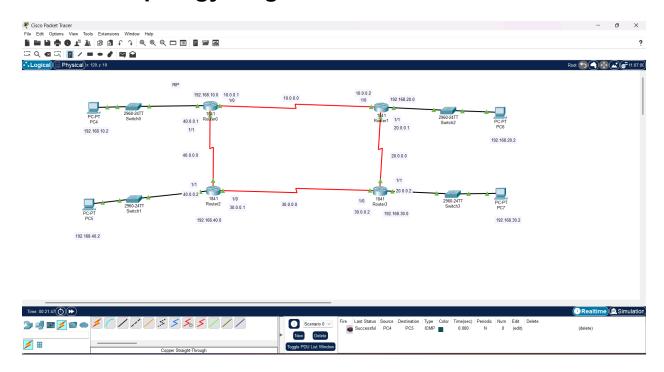




#### Ans to the gues no. 2

#### **OSPF (Open Shortest Path First):**

#### **Network topology diagram:**

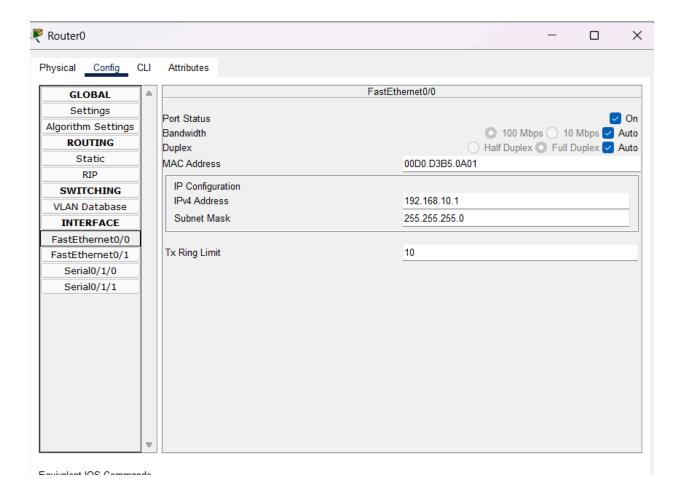


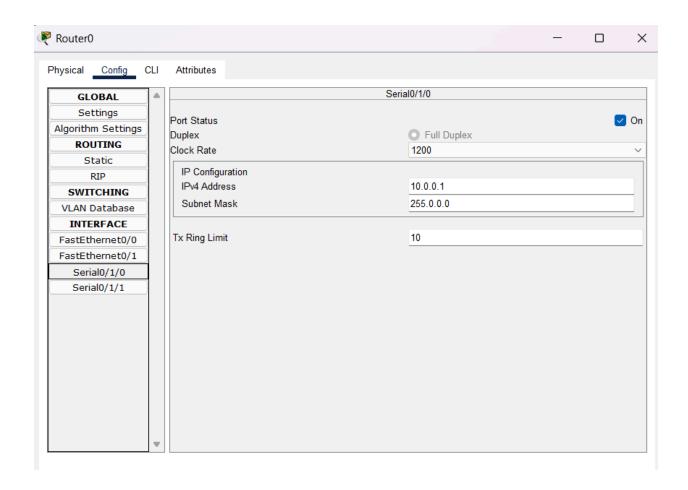
#### **Configuration for RIP:**

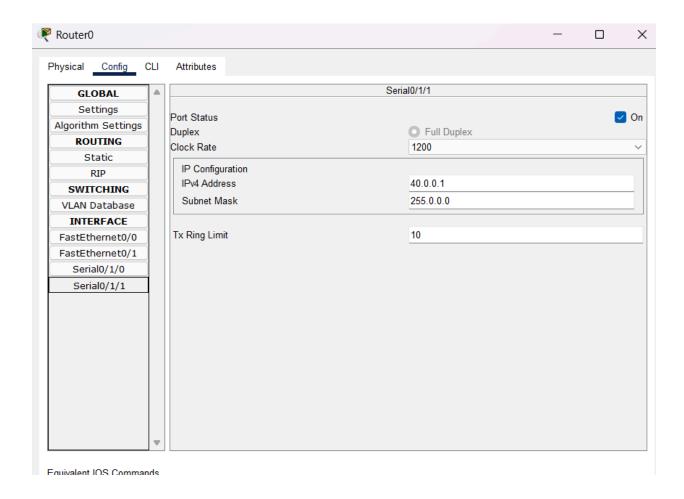
- 6. Take 4 router and install WIC-2T and restart.
- 7. Connect 4 routers using Serial DTE cables.
- 8. Take 1 switch and 1 end device for each router
- 9. Connect switch and end device using Copper Straight Through cable.

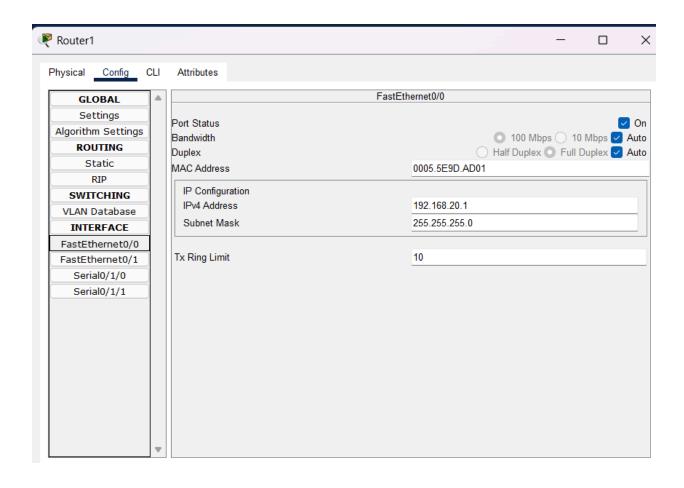
10. Give ip address to the end devices and also router.

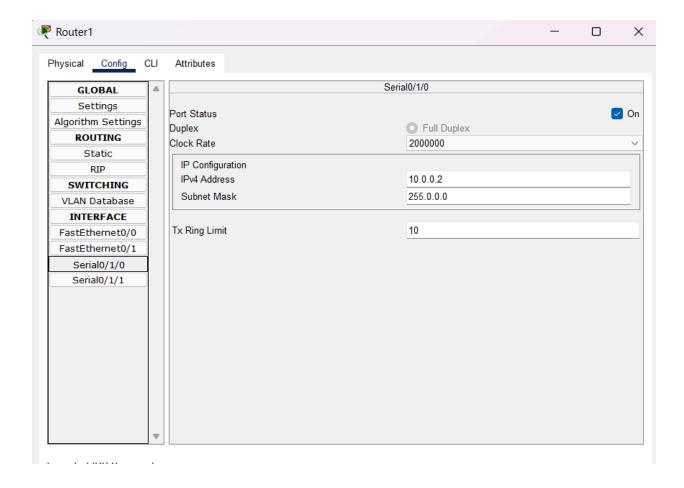
# **Screenshots of configuration:**

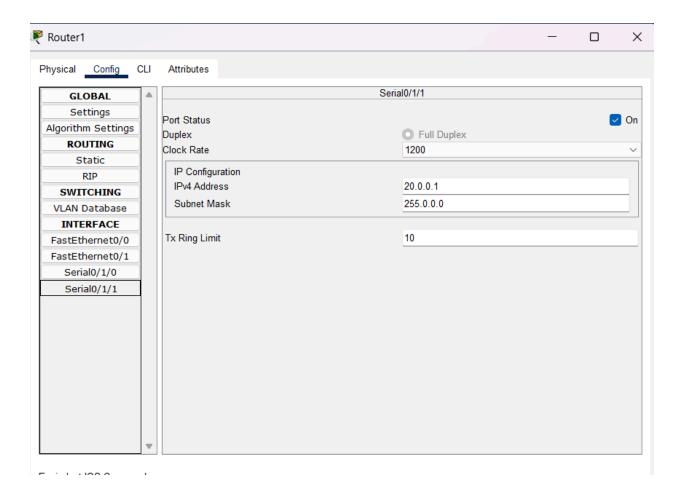


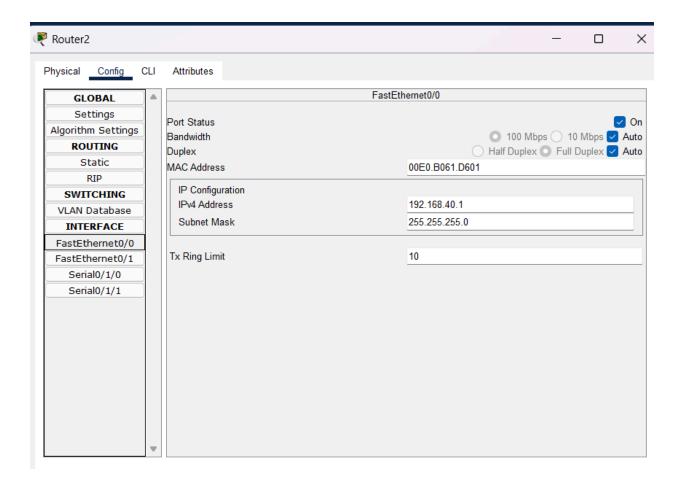


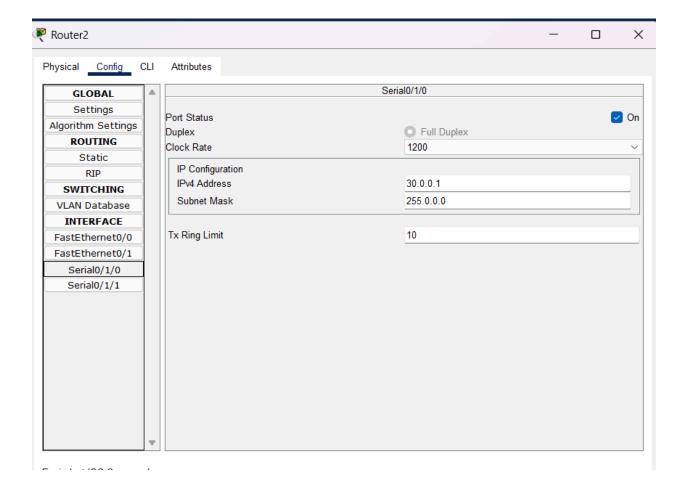


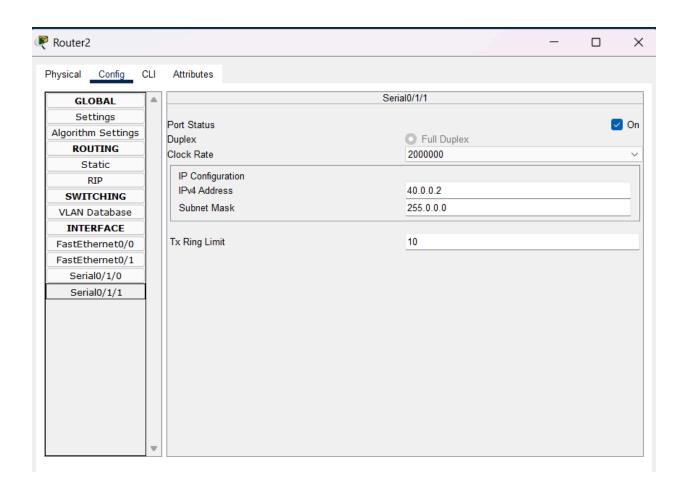


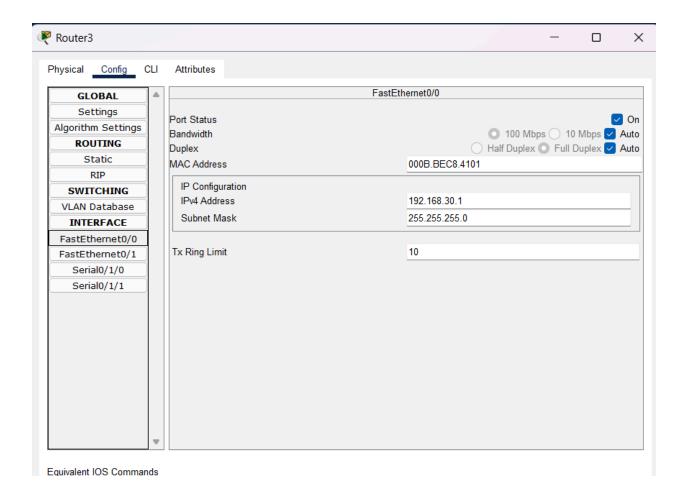


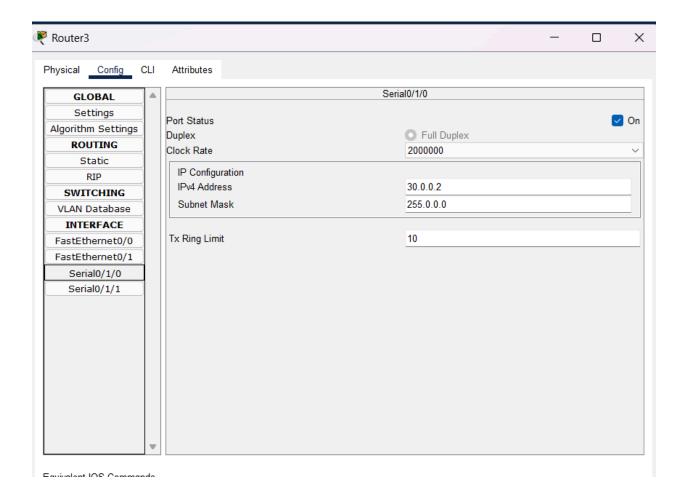


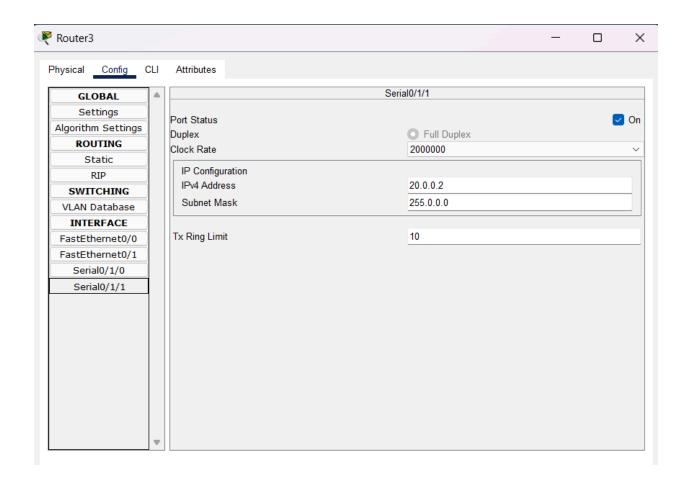


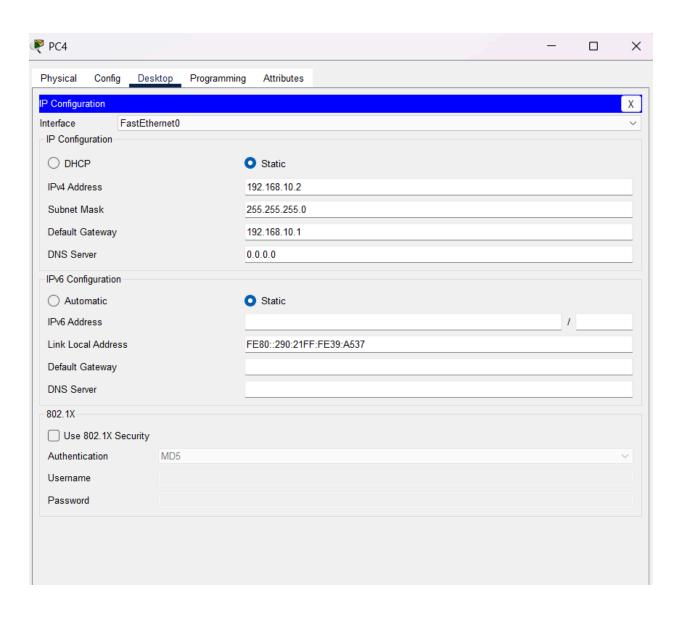


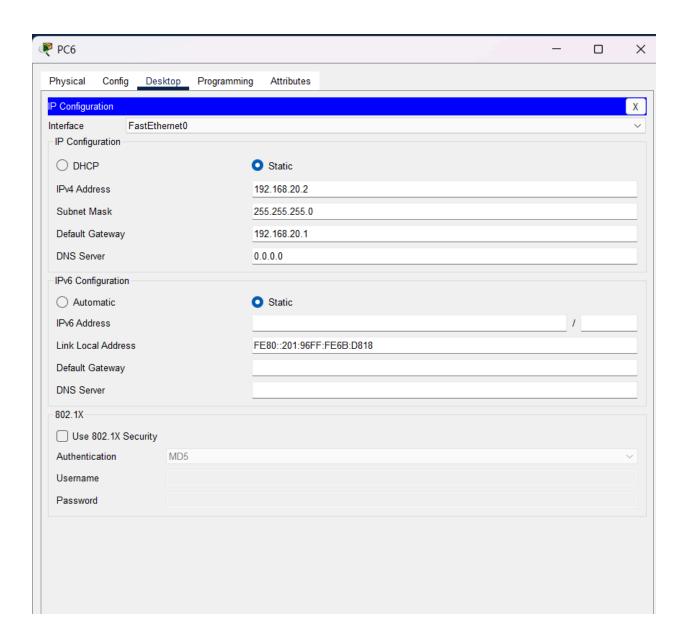


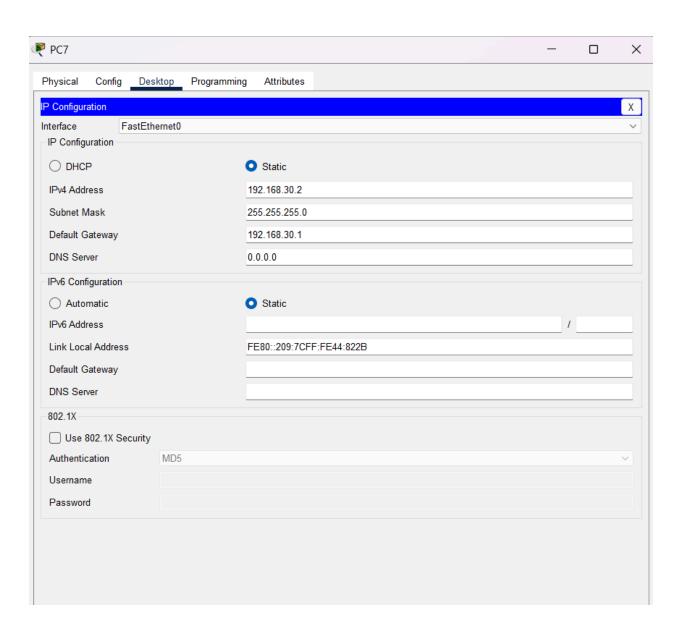


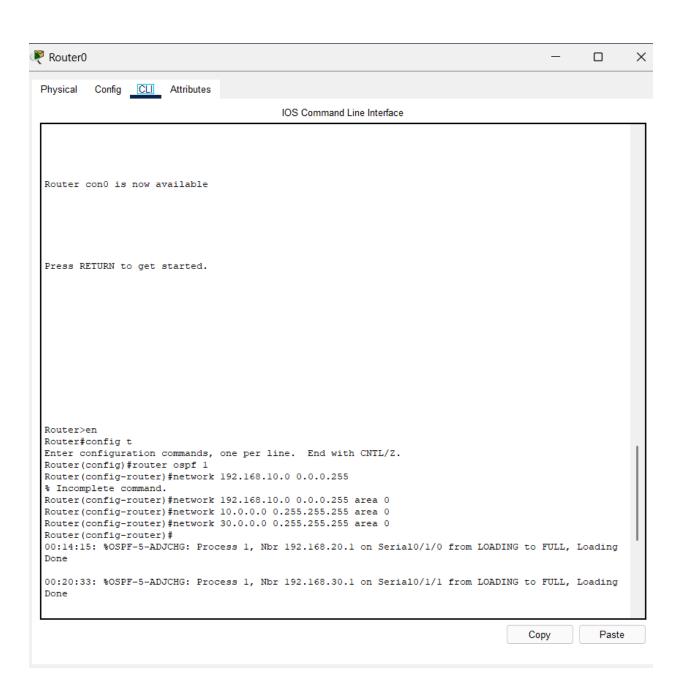


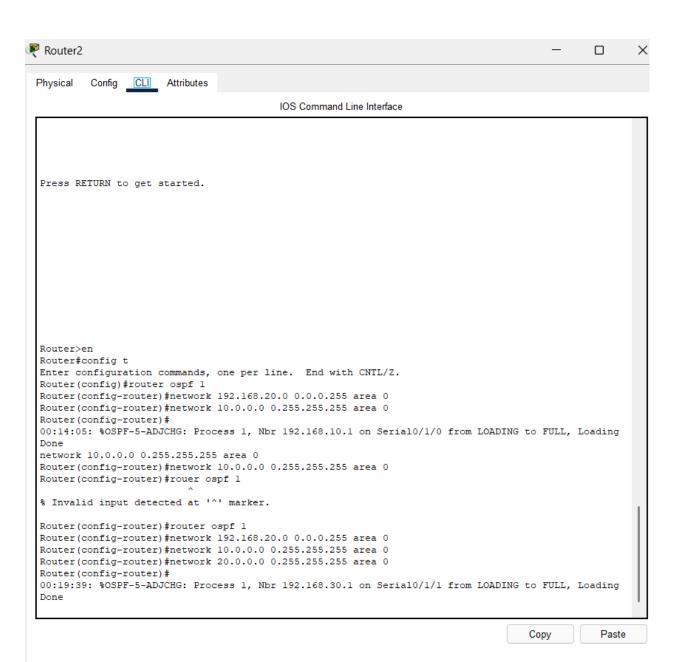


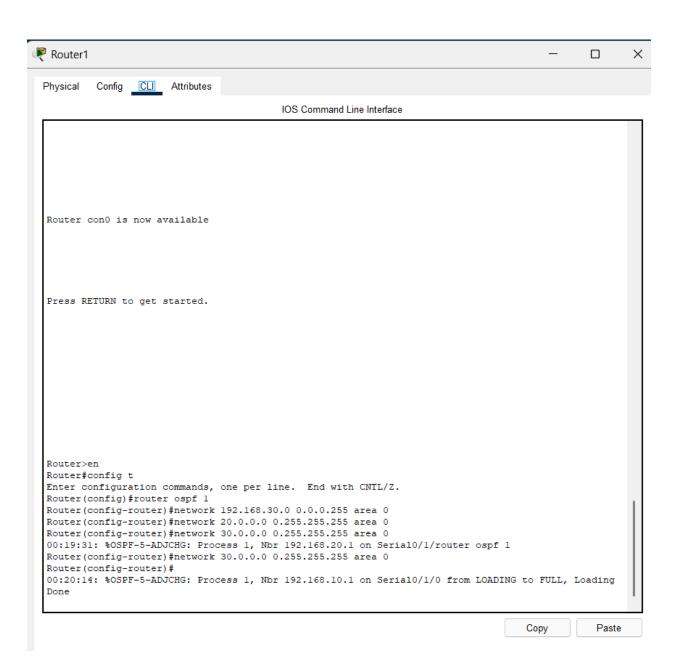












```
outer#config t
nter configuration commands, one per line. End with CNTL/Z.
outer(config) #router ospf 1
outer(config-router) #network 192.168.40.0 0.0.0.255 area 0
outer(config-router) #network 20.0.0.0 0.255.255.255.255 area 0
 Invalid input detected at '^' marker.
outer(config-router) #network 20.0.0.0 0.255.255.255 area 0
outer(config-router) #network 30.0.0.0 0.255.255.255 area 0
outer(config-router)#
₹ Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Root (5) (4) (5) (6 11:07:00)
                            192.168.10.0 10.0.0.1
                                           10.0.0.0
                                                             192.168.20.0
                           40.0.0.1
                                                                              192.168.20.2
                           40.0.0.0
                                  1/0
30.0.0.1
                                           30.0.0.0
                                                       30.0.0.2
                                                            192.168.30.0
                             192.168.40.0
                                                                               192.168.30.2
        192.168.40.2
Time: 00:21:47(5)
Scenario 0 ∨
                                             New
```

outer>en

#### Ans to the ques no. 3

RIP	OSPF
1. Slow	1. Fast

2. Simple	2. Complex
3. Less efficient	3. More efficient