## **COMPUTER NETWORKS LAB EXAM 2**

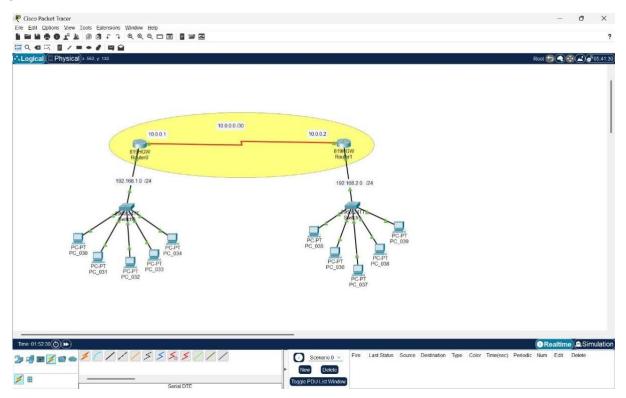
# NIKASH.P RA2211003050156 BTECH CSE - C

### **OBJECTIVE:**

Set up and configure a network topology using RIP and OSPF routing protocols in Cisco Packet Tracer. Customize the network by assigning each computer a name and an IP address using the last three digits of your roll number.

#### STEPS TAKEN:

#### STEP 1:

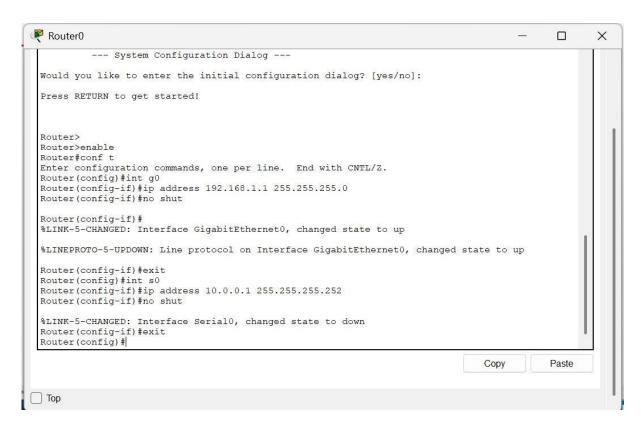


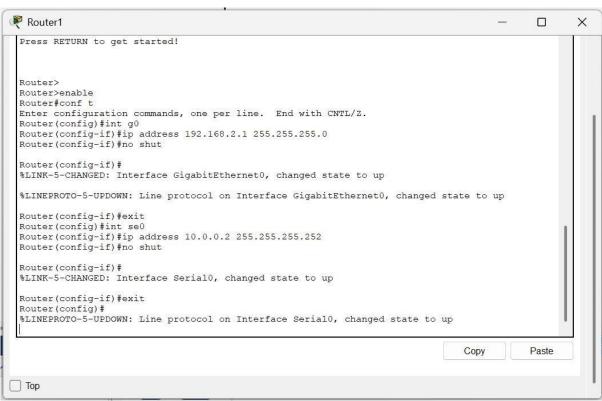
- ☐ Link the two routers with a Serial DCE-DTE cable.
- ☐ Connect the GigabitEthernet ports of R1 and R2 Routers to the Switch (SW0/SW1) ports with a straight-through cable.
- ☐ Connect PC\_030 to PC\_034 to SW1, PC\_035 to PC\_039 to SW2 with a straight cable.

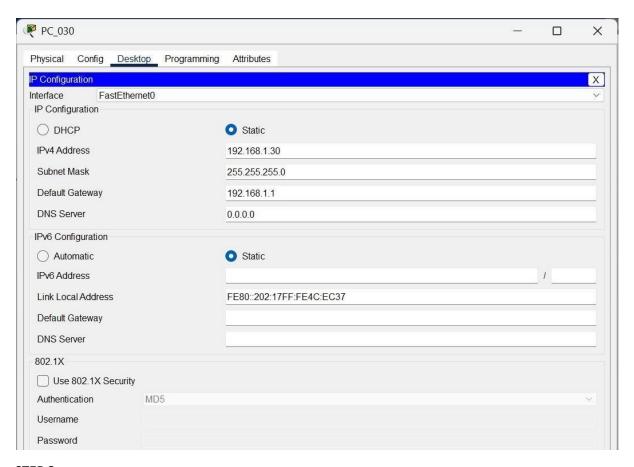
# STEP 2:

After typing the below commands on the Router, the connection is successful indicated by the green triangles on the cables below.

Click on the R1 Router you made in the setup, and open the settings. After that, go to the CLI tab. Use the commands below to give IP addresses to R1's GigabitEthernet and Serial ports.



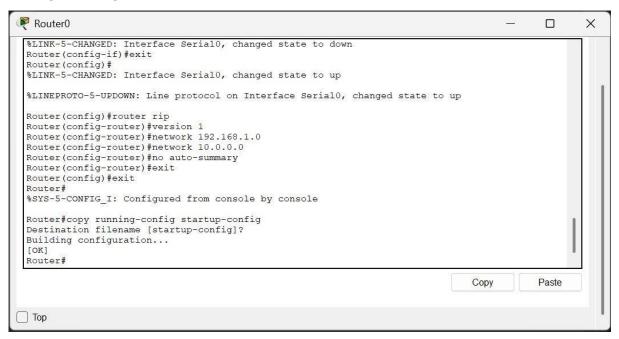




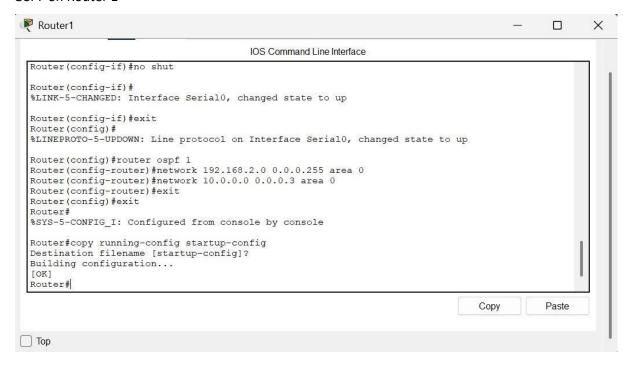
# STEP 3:

Setting up RIP Protocol on Router 0

## **Enabling RIP Configuration**



#### OSPF on Router 1



#### STEP 4:

Pinging to check the connectivity

```
PC_030

Reply from 192.168.2.35: bytes=32 time=lms TTL=126
Reply from 192.168.2.35: bytes=32 time=l2ms TTL=126

Ping statistics for 192.168.2.35:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = lms, Maximum = 12ms, Average = 5ms

C:\>ping 192.168.2.035

Pinging 192.168.2.035 with 32 bytes of data:

Reply from 192.168.2.35: bytes=32 time=0ms TTL=126
Reply from 192.168.2.35: bytes=32 time=12ms TTL=126
Reply from 192.168.2.35: bytes=32 time=12ms TTL=126
Reply from 192.168.2.35: bytes=32 time=14ms TTL=126

Ping statistics for 192.168.2.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 8ms, Maximum = 14ms, Average = 11ms

C:\>
```