

CNP FISAC 1: Cisco Packet Tracer

RIP and BGP

Group Number: 3

Subject Code:

Subject Name:

Date: 25/03/2025

Names:

Yashvardhan Tomar (230953420)

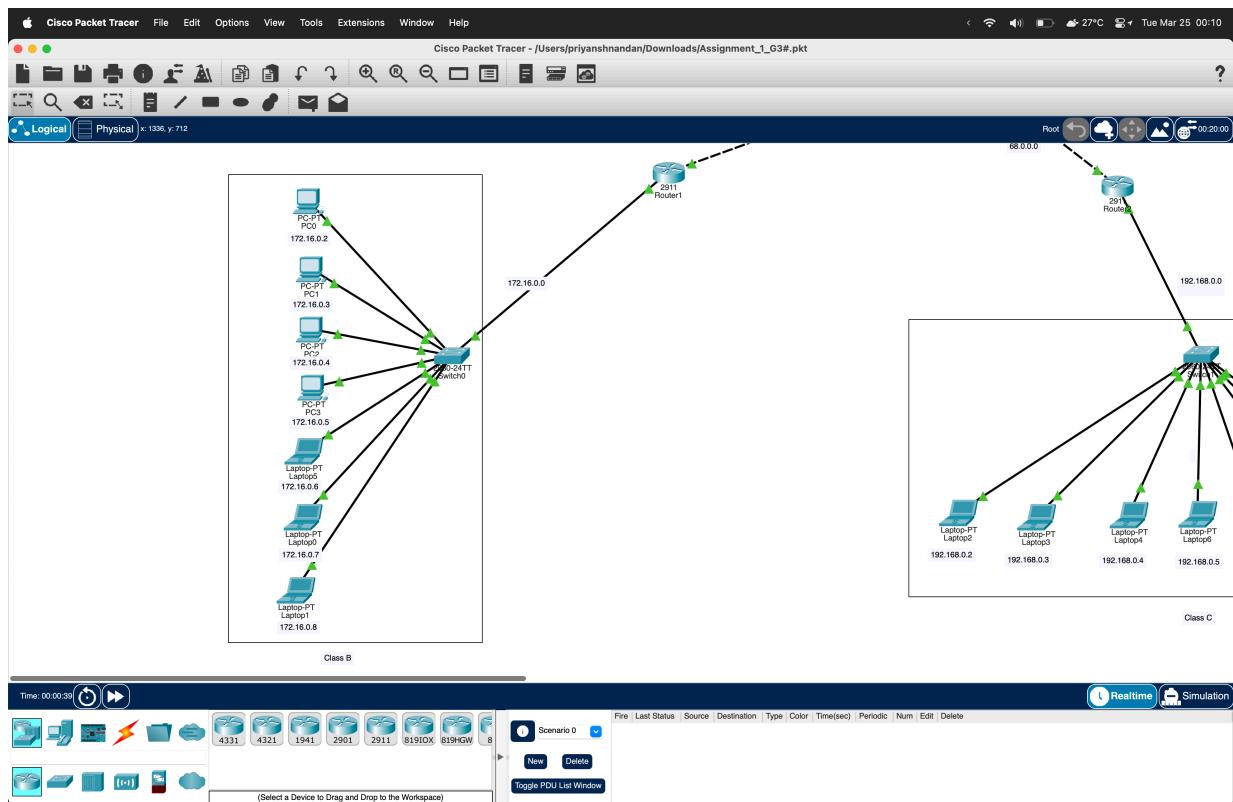
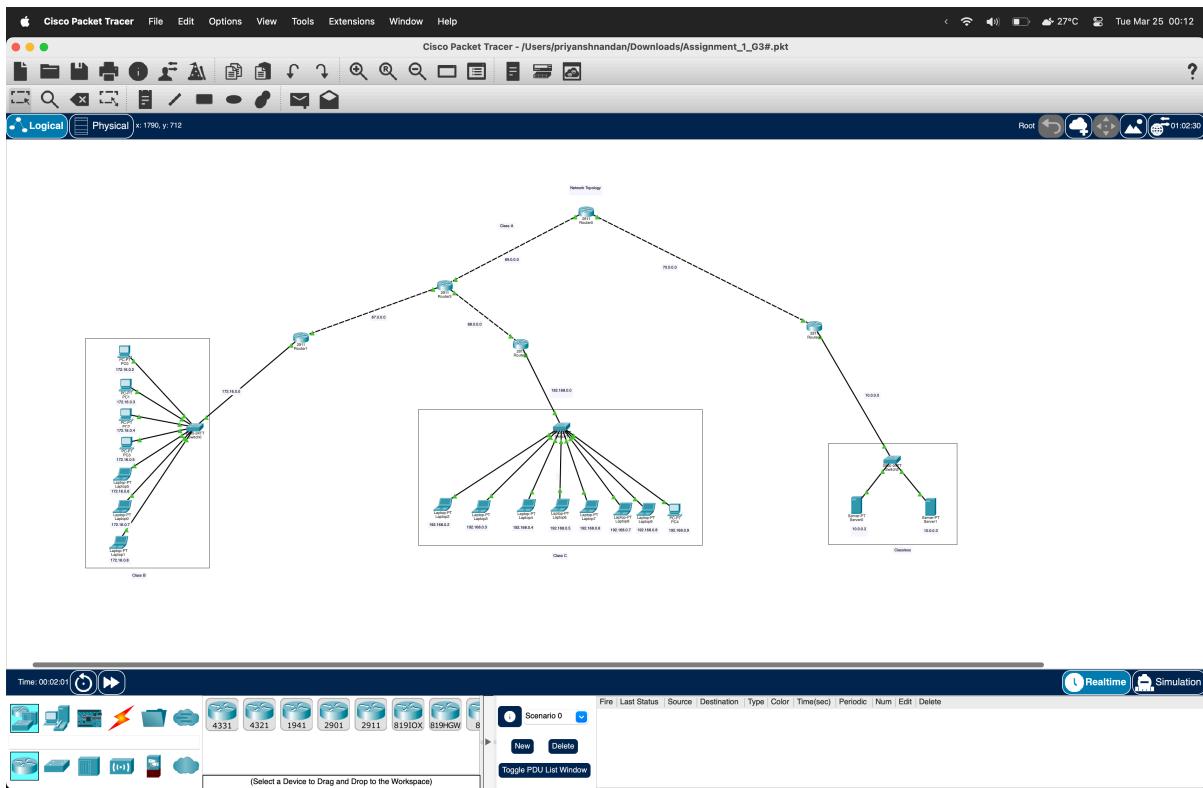
Hisham Adil (230953434)

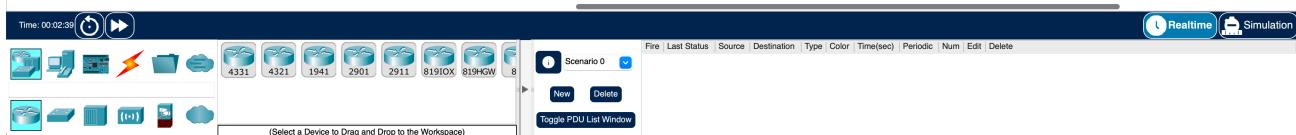
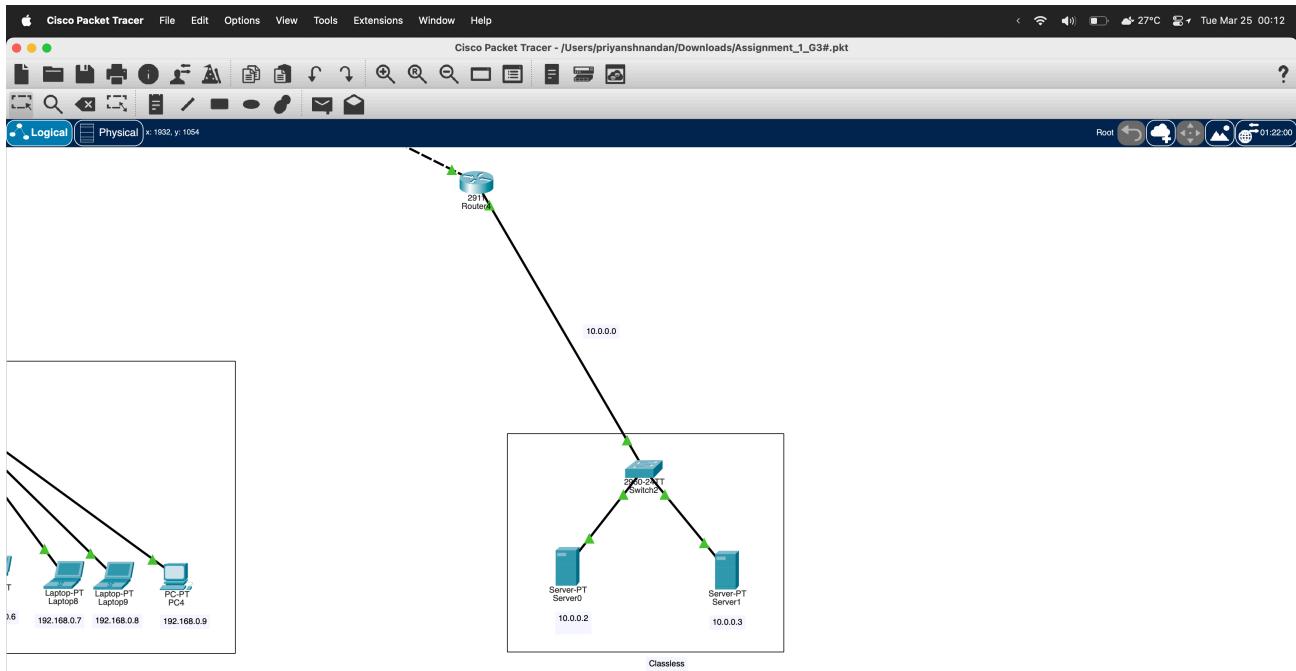
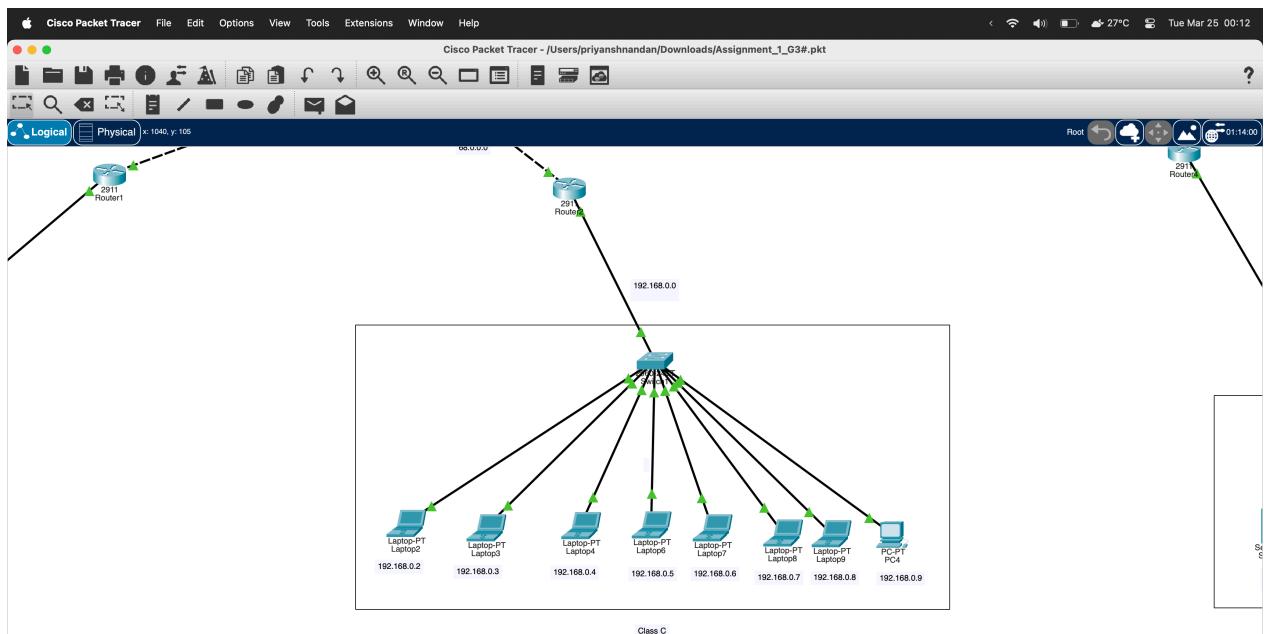
Ayrton Joseph (230953448)

Priyansh Nandan (230953450)

Section: CCE-D

Network Topology





IP Configuration

Router 0

Yashvardhan Tawar
230953420
CCE-A
45

Router 0

```
Router> enable
Router# configure terminal
Router(config)# router bgp 100
Router(config-router)# bgp router-id 1.1.1.1
Router(config-router)# neighbour 69.0.0.1 remote-as 1
Router(config-router)# exit
Router(config)# router tag bgp 100
Router(config-routes)#
Router(config-routes)# network 69.0.0.0 mask
Router(config-routes)# network 68.0.0.0 mask
Router(config-routes)# network 67.0.0.0 mask
Router(config-routes)# network 72.160.0 mask
Router(config-routes)# network 192.168.0.0 mask
Router(config-routes)# exit
Router# show ip route
Router# copy running-config startup-config
Router# exit
```

Router 1

Router 1

Priyanshu Nandam

Router > enable

Router # config +

Router (config) # router rip

Router (config-route) # version 2

Router (config-route) # network 67.0.0.0

Router (config-route) # network 172.16.0.0

Router (config-route) # exit

Router (config) # exit

Router# copy ru st

Router 2

Yashvardhan Tawar
Date _____
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Router 2

```
Router(config-router)#
Router(config-router)#
Router(config-router)#
Router# configure terminal
Router(config-router)# router rip
Router(config-router)#
network 68.0.0.0
Router(config-router)# network 192.168.0.0
Router(config-router)#
Router(config-router)#
Router(config-router)# ccd
Router# configure terminal
Router(config)# router rip
Router(config-router)#
Router>en
Router# copy t
Router(config)# ip route 0.0.0.0 0.0.0.0 68.0.0.2
Router(config)# exit
Router# show ip route
Gateway of last resort is 68.0.0.2 to network 0.0.0.0

R 67.0.0.0/8 [120/1] via 68.0.0.2, 00:00:24, GigabitEthernet0/0
68.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 68.0.0.0/8 is directly connected, GigabitEthernet0/0
L 68.0.0.1/32 is directly connected, GigabitEthernet0/0
R 192.16.0.0/16 [120/2] via 68.0.0.2, 00:00:24, GigabitEthernet0/0
192.16.0.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.16.0.0/24 is directly connected, GigabitEthernet0/0
L 192.16.0.1/32 is directly connected, GigabitEthernet0/0
```

K
ROUTER#
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ROUTER#
ROUTER#

classmate

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5* 0.0.0.0 [1/0] via 68.0.0.1

Router#

Router# copy ru st
Destination filename [startup-config]?
Building configuration...

[OK]

Router#

Router 3

AYRTON JOSEPH PULIKOTTU
CCIE-D-49 230953448
Router# Router# enable Router# configuration mode
Router# conf t
Router(config)# router bgp 100
Router(config-router)# bgp router-id 1.1.1.1
Router(config-router)# neighbor 69.0.0.2 remote-as
200
Router(config-router)# exit
Router(config)# Router# bgp 100
Router(config-router)# network 69.0.0.0 mask
255.0.0.0
Router(config-router)# network 68.0.0.0 mask
255.0.0.0
Router(config-router)# network 67.0.0.0 mask 255.0.0.0
Router(config-router)# network 172.16.0.0 mask 255.240.0.0
Router(config-router)# network 192.168.0.0 mask 255.255.255.0
Router(config-router)# exit
Router(config)# interface GigabitEthernet 0/0
Router(config-if)# exit
Router(config)# interface GigabitEthernet 0/1
Router(config-if)# exit
Router(config)# interface GigabitEthernet 0/2
Router(config-if)# exit
Router(config)# route rip
Router(config-router)# exit
Router(config)# router bgp 100
Router(config-router)# network 172.16.0.0 mask 255.255.
255.0

AMRTON PULIKOTTIL
CCE-D-99 230953468

cheestate

Routerr (config-route) # esut

Routerr# show ip route

Routerr# copy running-config startup-config

Router 4

Router 4

HISHAM ADIL

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```
Router > enable
Router # configure terminal
Router (config) # interface
Gigabit Ethernet 0/1
Router (config-if) # exit
Router (config) # interface
Gigabit Ethernet 0/1
Router (config-if) # exit
Router (config) # interface
Gigabit Ethernet 0/0
Router (config-if) # ip address 70.0.0.1
255.0.0.0
Router (config-if) # no shutdown
```

✓.LINK-5-CHANGED: Interface

Gigabit Ethernet 0/0, changed state to up

✓.LINEPROTO-5-UPDOWN:

Line protocol on Interface

Gigabit Ethernet 0/0 changed state to up

```
Router (config-if) # exit
Router (config) # router bgp 300
Router (config-router) # bgp router-id
3.3.3.3
Router (config-router) # neighbor 70.0.0.2
remote-as 200
Router (config-router) # network
70.0.0.0 mask 255.0.0.0
Router (config-router) # network
10.0.0.0 mask 255.255.255.192
Router (config-router) # exit
Router (config) # ip route 0.0.0.0
70.0.0.2
```

HISHAM ADIL

Router(config)# exit

% SYS-5-CONFIG-1: configured from console
by console

Router# show ip route

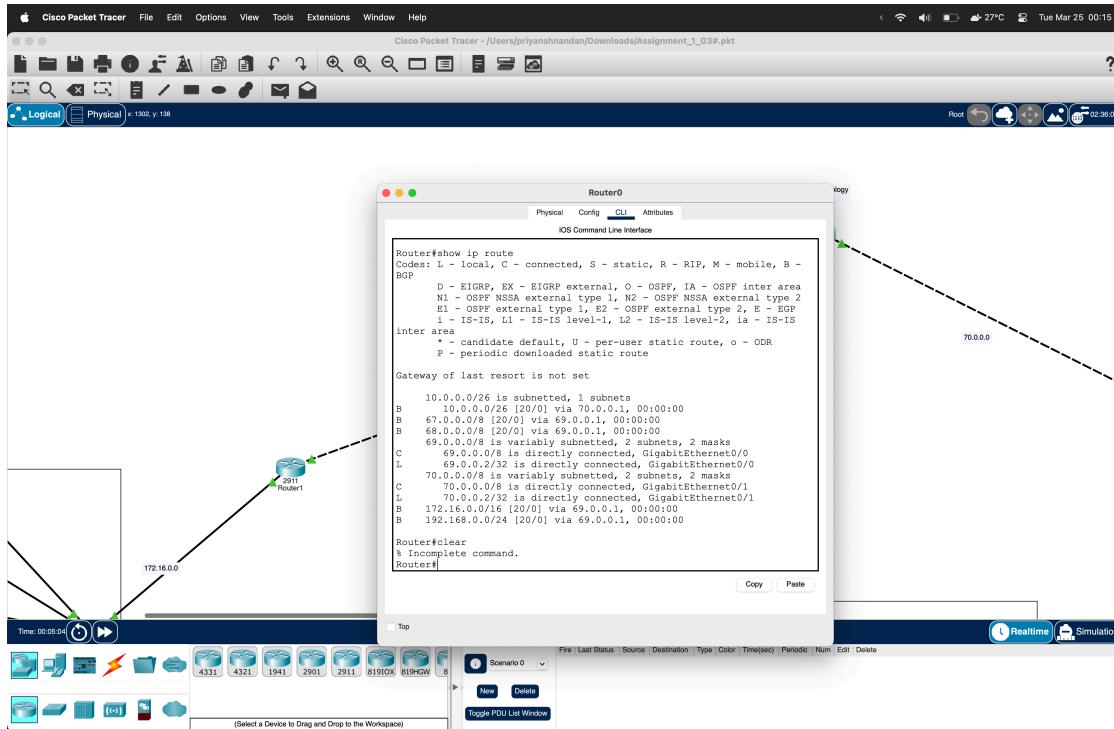
Router# copy running-config
startup-config
Destination file name [startup-config]?
Building configuration...
[OK]

% BGP-3-NOTIFICATION: sent to neighbor
70.0.0.2 4/0 (hold time
expired) 0 bytes
% BGP-5-ADJCHANGE: neighbor
70.0.0.2 Up

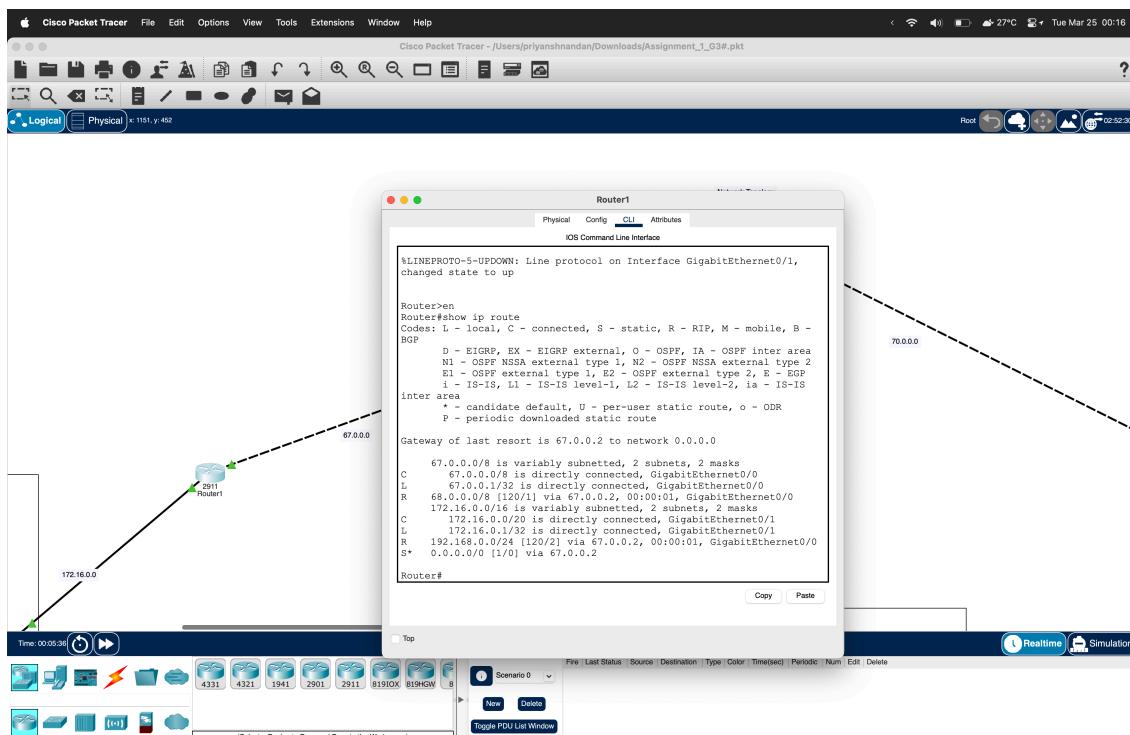
Router#

Routing Tables

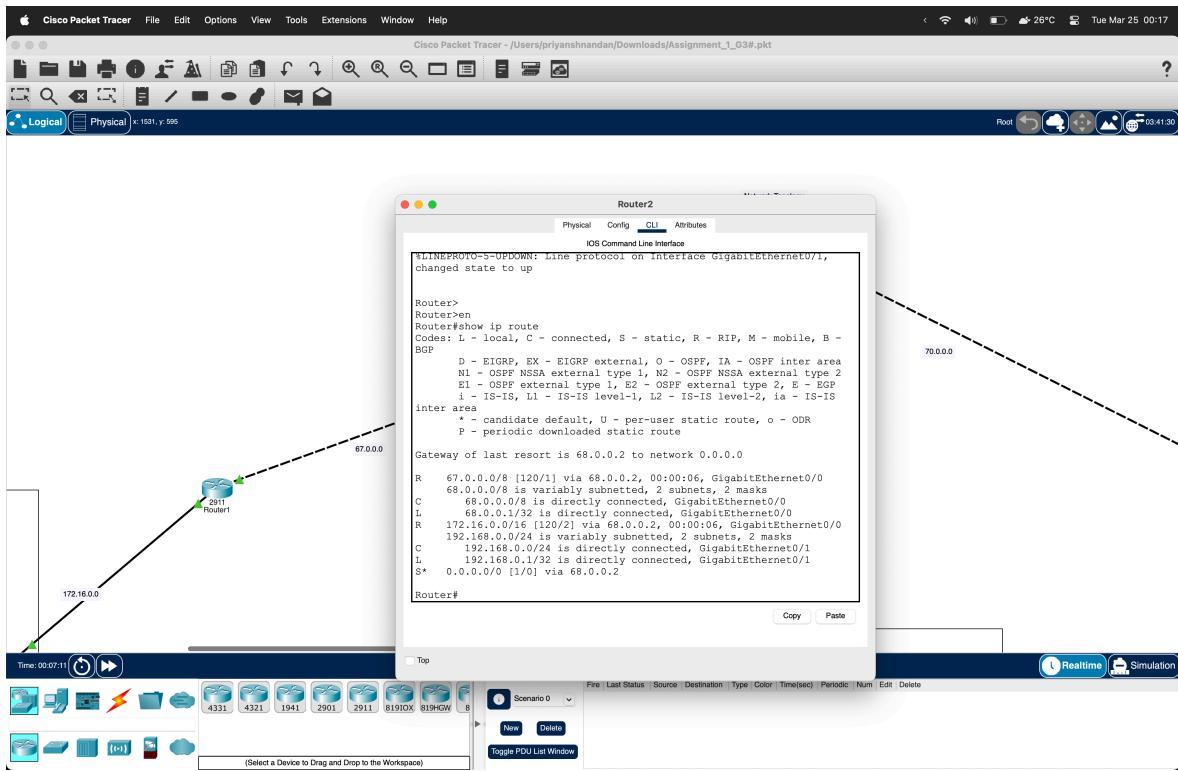
Router 0



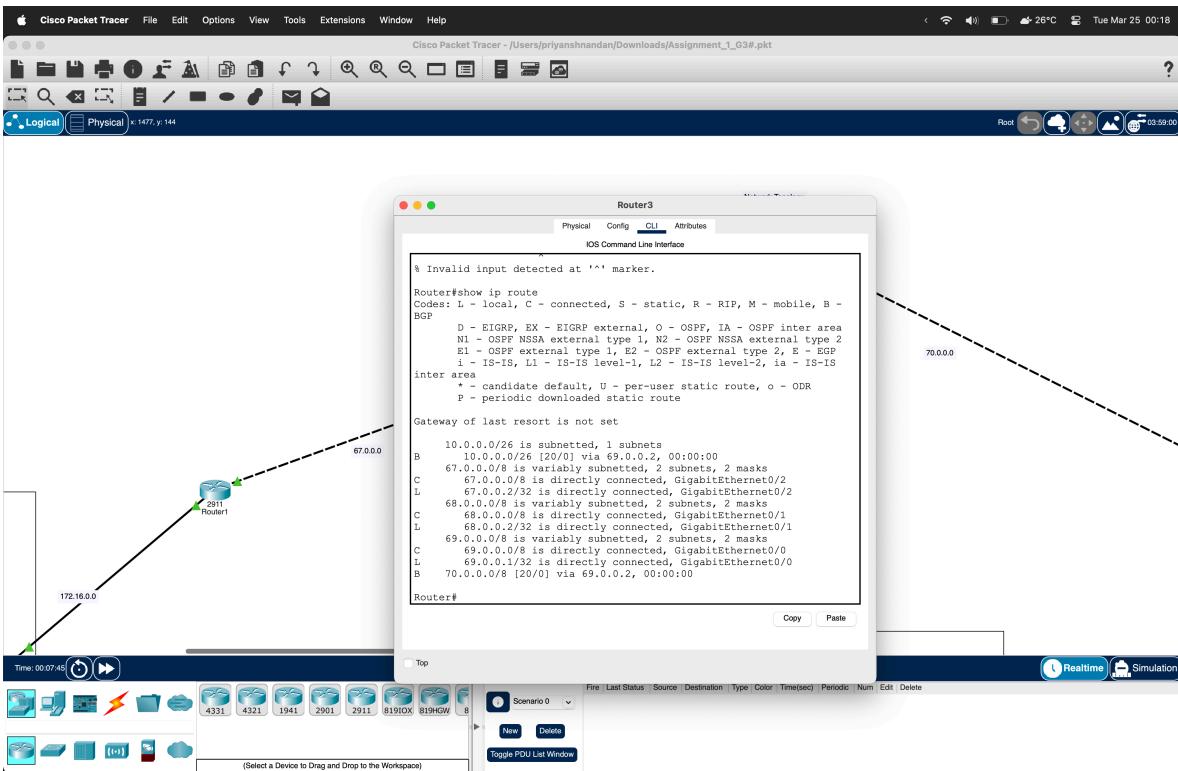
Router 1



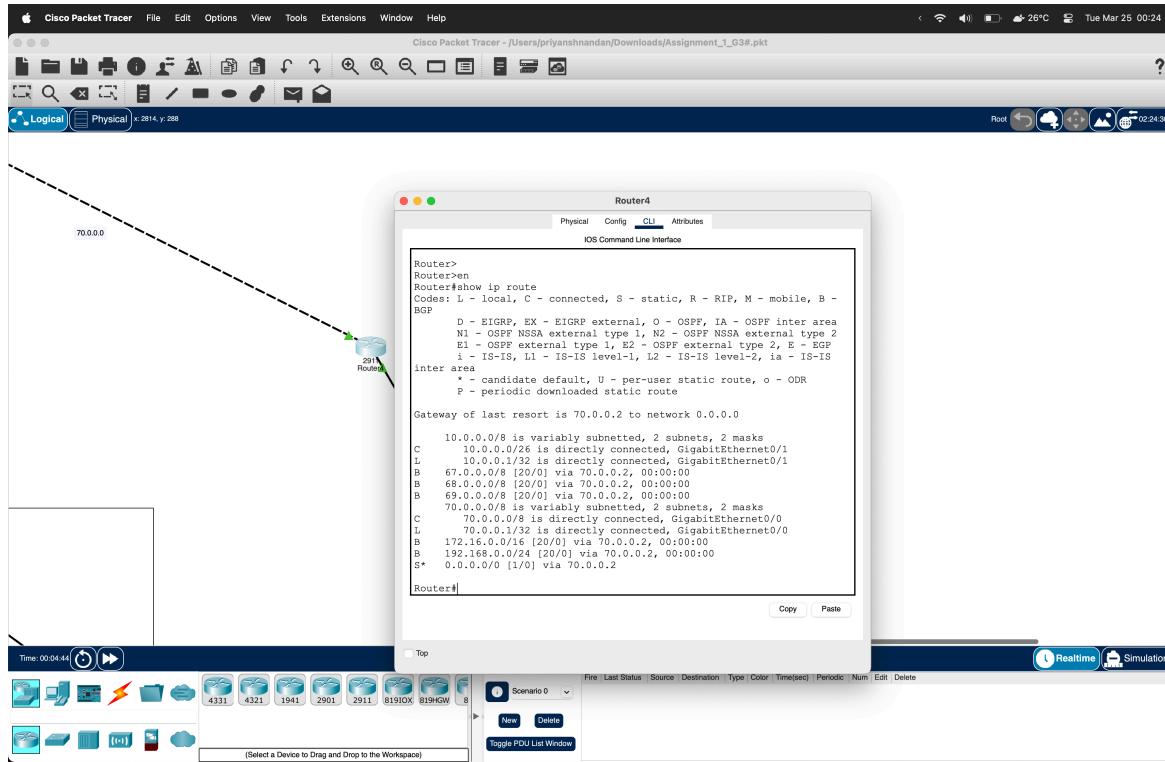
Router 2



Router 3



Router 4



Checking the Connectivity between PC0 and Server 0

Modified the HTML (index.html) page in server 0 under HTTP services, so that it displays “All the Best!!”.

In the **Web Browser** available under desktop section of **PC0**, type the IP address of Server0, this will load the HTML page, and we will get the display of “All the Best!!” message.

IP address for the Server 0 → 10.0.0.2

HTML page →

<HTML>

<BODY> <h1><center>All the Best!!</center></h1></BODY>

</HTML>

