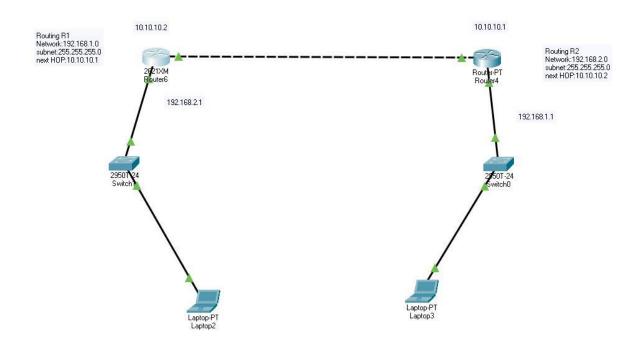
Name: Muhammad Abeer

Roll no: 19P-0061

Section: 5-B

#### LAB WORK 1



## R1

```
Router(config) #interface FastEthernet0/1
Router(config-if) #ip address 192.168.2.1 255.255.255.0
Router(config-if) #
Router(config-if) #exit
Router(config) #interface FastEthernet0/0
Router(config-if) #ip address 10.10.10.2 255.0.0.0
Router(config-if) #
```

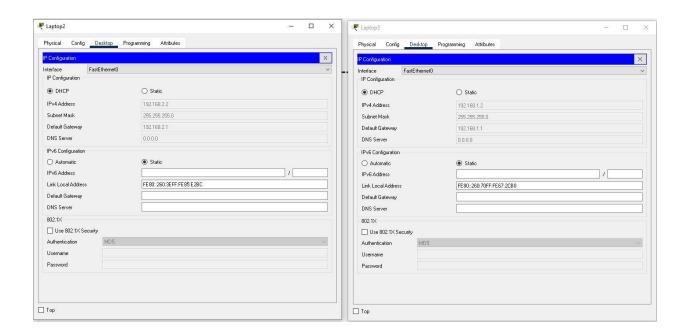
#### R2

```
Router*Penable
Router#
Router#Configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 10.10.10.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#

Ctrl+F6 to exit CLI focus

Copy Paste
```

#### PC IP



# Routing R1 & R2

## Routing R1

Network: 192.168.1.0 subnet: 255.255.255.0 next HOP: 10.10.10.1

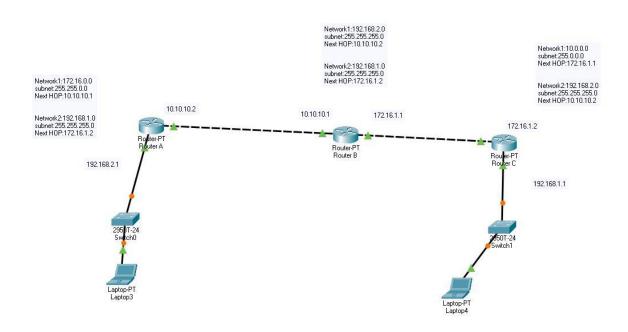
## Routing R2

Network: 192.168.2.0 subnet: 255.255.255.0 next HOP: 10.10.10.2

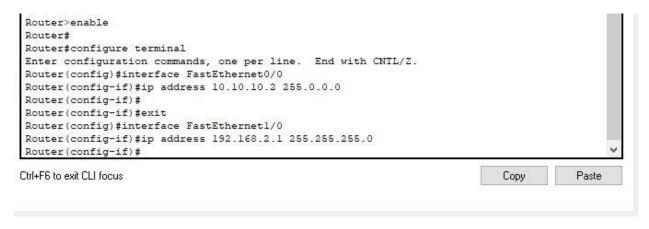
# Result showing communication over the router

Fire	Last Status	Source	Destination	Туре	Color	Time(sec)	Periodic	Num	Edit	Delete
•	Successful	L1	L2	ICMP		0.000	N	0	(edit)	
•	Successful	L2	L1	ICMP		0.000	N	1	(edit)	

#### TASK 2



### **Router A**



#### **Router B**

Router#enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/2.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 10.10.10.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 172.16.1.1 255.255.0.0
Router(config-if)#

Ctrl+F6 to exit CLI focus

Сору

Paste

#### **Router C**

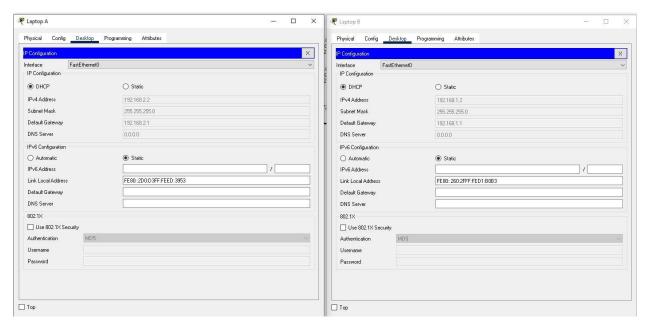
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.16.1.2 255.255.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#

Ctrl+F6 to exit CLI focus

Сору

Paste

## **Laptop IP**



## Routing Router A B & C

## Router A

Network1:172.16.0.0 subnet:255.255.0.0 Next HOP:10.10.10.1

Network2:192.168.1.0 subnet:255.255.255.0 Next HOP:172.16.1.2

#### Router B

Network1:192.168.2.0 subnet:255.255.255.0 Next HOP:10.10.10.2

Network2:192.168.1.0 subnet:255.255.255.0 Next HOP:172.16.1.2

## Router C

Network1:10.0.0.0 subnet:255.0.0.0 Next HOP:172.16.1.1

Network2:192.168.2.0 subnet:255.255.255.0 Next HOP:10.10.10.2

## Successful transmission of packets across routers

