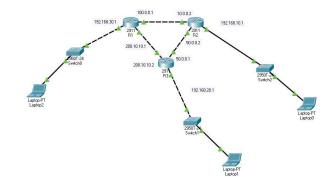
Name: Muhammad Abeer

Roll no:19P-0061

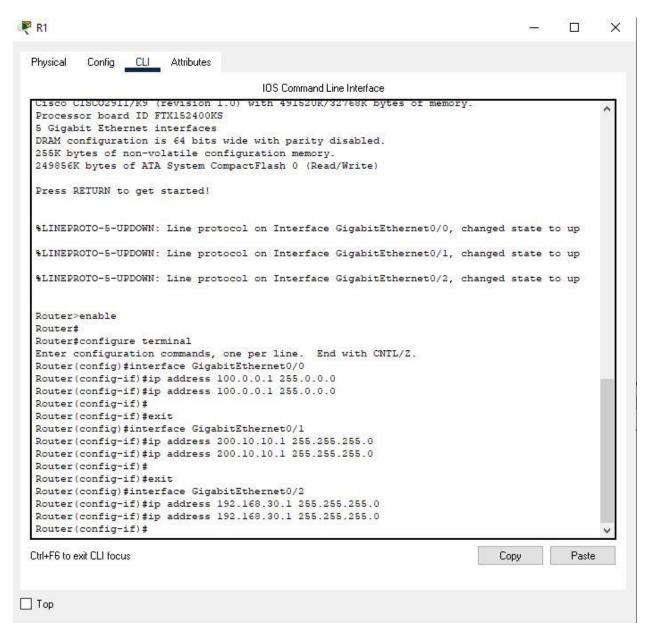
Section: 5-B

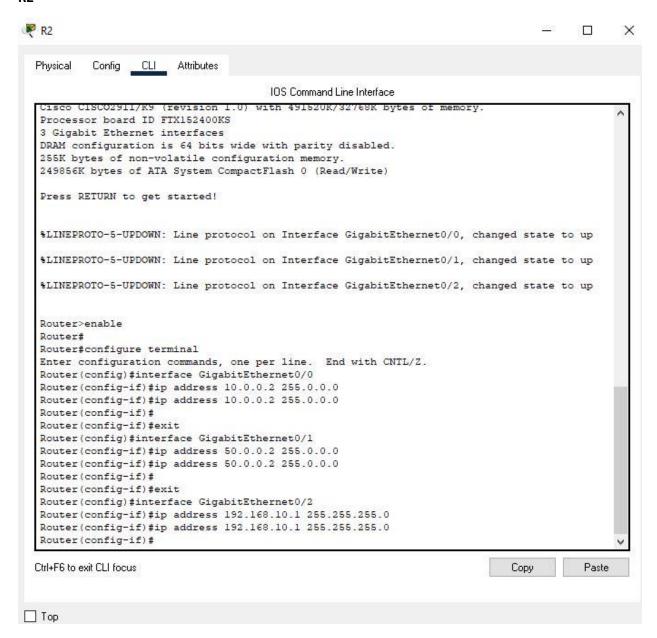
R1 Routing	R2 Routing	R3 Routing
Network1	Network1	Network1
Network: 192.168.10.0 Subnet: 255.255.255.0 Next HDP: 10.0.0.2	Network:192.168.30.0 Subnet:255.255.255.0 Next HOP:100.0.0.1	Network: 192,168,10,0 Subnet: 255,255,255,0 Next HOP: 10,0,0,0
Network2	Network2	Network2
Network:50.0.0.0 subnet:255.0.0.0 Next HDP:10.0.0.2	Network: 192.168.30.0 subnet: 255.255.255.0 Next HOP: 200.10.10.1	Network: 10.0.0.0 subnet: 255.0.0.0 Next H0P: 50.0.0.2
Network 3	Network 3	Network 3
Network: 192.168.20.0 subnet: 255.255.255.0 Next HDP: 200.10.10.2	Network:192.168.20.0 subnet:255.255.255.0 Next HOP:200.10.10.2	Network: 192,168,30,0 subnet: 255,255,255,0 Next HDP: 200,10,10,1
Network 4	Network 4	Network 4
Network: 192,168,20.0 subnet: 255,255,255.0 Next HDP: 50.0.0.1	Network: 192.168.20.0 subnet: 255.255.255.0 Next HOP: 50.0.0.1	Network: 192.168.30.0 subnet: 255.255.255.0 Next H0P:100.0.0.1
Network 5	Network 5	Network 5
Network: 192.168.10.0 subnet: 255.255.255.0 Next HDP: 50.0.0.2	Network: 200:10.10.0 subnet 255: 255: 255: 0 Next HOP: 50: 0.0.1	Network: 192,168,10.0 subnet: 255,255,255,0 Next HOP: 50.0.0.2
Network 6	Network 6	Network 6
network:50.0.0.0 subnet:255.0.0.0 Next HDP:200.10.10.2	network:200.10.10.0 subnet:255.255.255.0 Next HOP:100.0.0.1	network: 100.0.0.0 subnet: 255.0.0.0 Next HOP: 200.10.10



# **Router Configurations**

### **R1**





```
Router(config) #interface GigabitEthernet0/0
  Router(config-if) #ip address 200.10.10.2 255.255.255.0
  Router(config-if)#
  Router(config-if) #exit
  Router(config) #interface GigabitEthernet0/1
  Router(config-if) #ip address 50.0.0.1 255.0.0.0
  Router(config-if)#
  Router(config-if) #exit
  Router(config) #interface GigabitEthernet0/2
  Router(config-if) #ip address 192.168.20.1 255.255.255.0
  Router(config-if)#
  Router(config-if) #exit
  Router(config) #interface GigabitEthernet0/0/0
  Router(config-if)#
 Ctrl+F6 to exit CLI focus
                                                                               Сору
                                                                                           Paste
Top
```

## **DHCP Config**

#### R1

```
Router(config)#
Router(config)#ip route 192.168.10.0 255.255.255.0 50.0.0.2
Router(config) #ip route 50.0.0.0 255.0.0.0 200.10.10.2
Router(config) #IP DHCP POOL A
Router(dhcp-config) #default-network 192.168.30.0 255.255.255.0
% Invalid input detected at '^' marker.
Router(dhcp-config) #default network 192.168.30.0 255.255.255.0
% Invalid input detected at '^' marker.
Router(dhcp-config) #network 192.168.30.0 255.255.255.0
Router(dhcp-config) #default-route 192.168.30.1
Router (dhcp-config) #ex
Router(config) #ip dhcp excluded-address 192.168.30.1
Router (config) #
Ctrl+F6 to exit CLI focus
                                                                              Сору
                                                                                          Paste
```



#### R3

```
Router(config) #ip fouce 192.160.30.0 255.255.255.0

Router(dhcp-config) #network 192.168.10.0 255.255.255.0

Router(dhcp-config) #default route 192.168.10.1

* Invalid input detected at '^' marker.

Router(dhcp-config) #default-route 192.168.10.1

Router(dhcp-config) #ex

Router(config) # phone excluded address 192.168.10.1

Router(config) # phone excluded address 192.168.10.1

Ctrl+F6 to exit CLI focus

Copy

Paste
```

## **Static IP Config**

# **R1 Routing**

## Network1

Network:192.168.10.0 Subnet:255.255.255.0 Next HOP:10.0.0.2

### Network2

Network:50.0.0.0 subnet:255.0.0.0 Next HOP:10.0.0.2

### Network 3

Network:192.168.20.0 subnet:255.255.255.0 Next HOP:200.10.10.2

## Network 4

Network:192.168.20.0 subnet:255.255.255.0 Next HOP:50.0.0.1

### Network 5

Network:192.168.10.0 subnet:255.255.255.0 Next HOP:50.0.0.2

## Network 6

network:50.0.0.0 subnet:255.0.0.0 Next HOP:200.10.10.2

## **R2 Routing**

## Network1

Network:192.168.30.0 Subnet:255.255.255.0 Next HOP:100.0.0.1

## Network2

Network:192.168.30.0 subnet:255.255.255.0 Next HOP:200.10.10.1

## Network 3

Network:192.168.20.0 subnet:255.255.255.0 Next HOP:200.10.10.2

### Network 4

Network:192.168.20.0 subnet:255.255.255.0 Next HOP:50.0.0.1

### Network 5

Network:200.10.10.0 subnet:255.255.255.0 Next HOP:50.0.0.1

### Network 6

network:200.10.10.0 subnet:255.255.255.0 Next HOP:100.0.0.1

# **R3 Routing**

### Network1

Network:192.168.10.0 Subnet:255.255.255.0 Next HOP:10.0.0.2

### Network2

Network:10.0.0.0 subnet:255.0.0.0 Next HOP:50.0.0.2

### Network 3

Network:192.168.30.0 subnet:255.255.255.0 Next HOP:200.10.10.1

## Network 4

Network:192.168.30.0 subnet:255.255.255.0 Next HOP:100.0.0.1

### Network 5

Network:192.168.10.0 subnet:255.255.255.0 Next HOP:50.0.0.2

## Network 6

network:100.0.0.0 subnet:255.0.0.0 Next HOP:200.10.10.1

<sup>\*</sup> There are 6 total networks in the given mapping of Network. \*