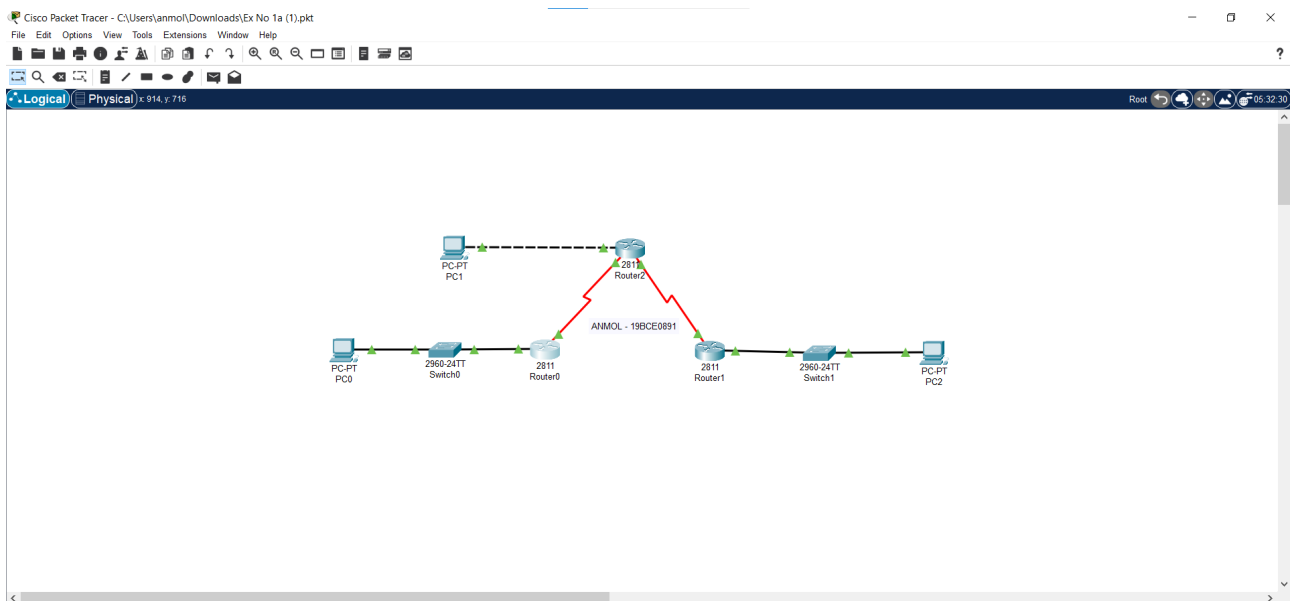


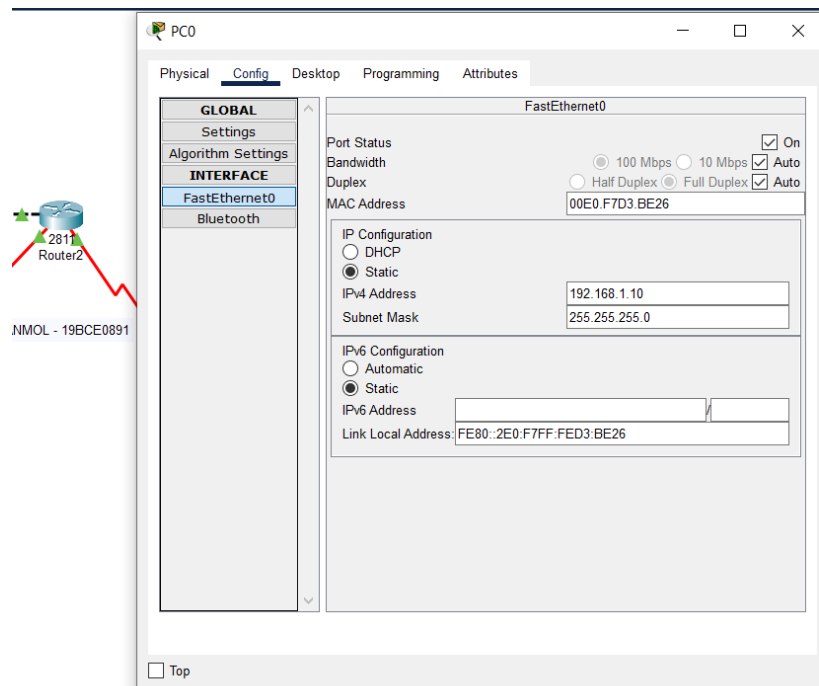
NAME – ANMOL  
REG. NO. - 19BCE0891

## DIGITAL ASSIGNMENT – 1

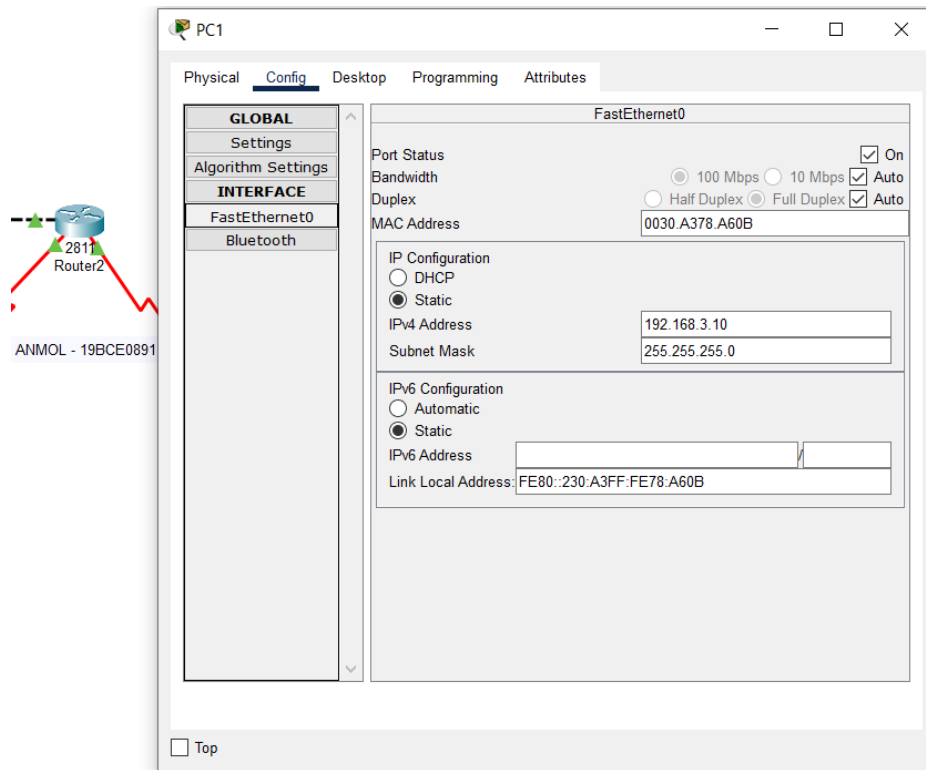
### NETWORK TOPOLOGY



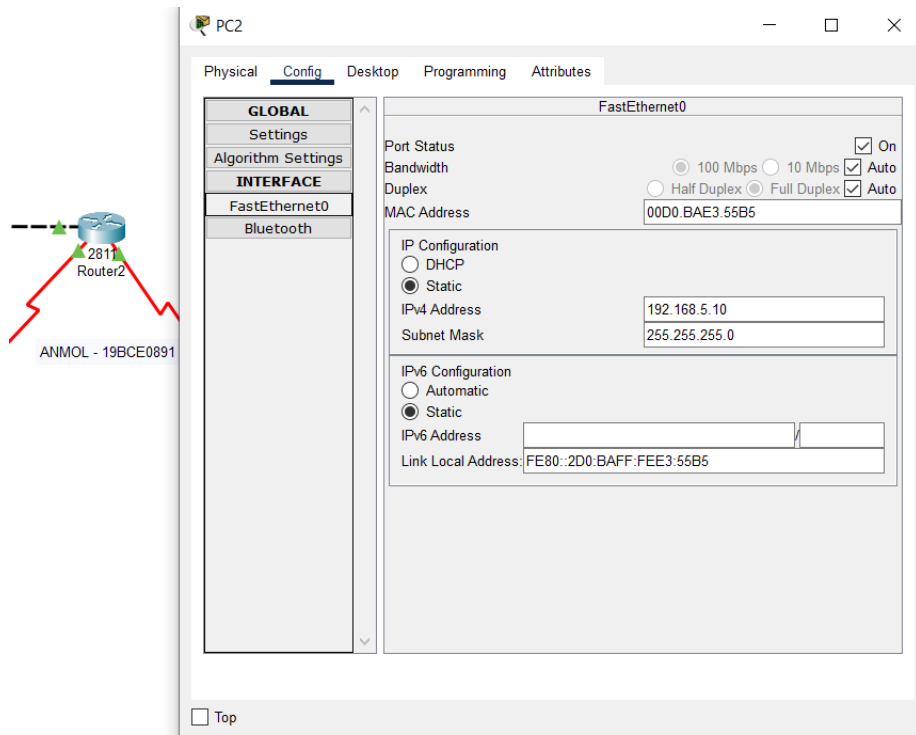
### PC0 CONFIG

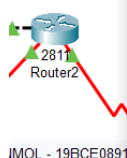


## PC1 CONFIG



## PC2 CONFIG



**ROUTER 0 CONFIG**


Router0

Physical Config CLI Attributes

**GLOBAL**

- Settings
- Algorithm Settings
- ROUTING**
  - Static
  - RIP
- SWITCHING**
  - VLAN Database
- INTERFACE**
  - FastEthernet0/0
  - FastEthernet0/1
  - Serial0/0/0
  - Serial0/1/0
  - Ethernet1/0

**FastEthernet0/0**

Port Status ☒ On  
 Bandwidth ☒ Auto  
 Duplex ☒ Full Duplex ☒ Auto  
 MAC Address 000A.F3BD.6701

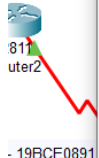
IP Configuration  
 IPv4 Address 192.168.1.1  
 Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top



Router0

Physical Config CLI Attributes

**GLOBAL**

- Settings
- Algorithm Settings
- ROUTING**
  - Static
  - RIP
- SWITCHING**
  - VLAN Database
- INTERFACE**
  - FastEthernet0/0
  - FastEthernet0/1
  - Serial0/0/0
  - Serial0/1/0
  - Ethernet1/0

**Serial0/0/0**

Port Status ☒ On  
 Duplex ☒ Full Duplex  
 Clock Rate 2000000

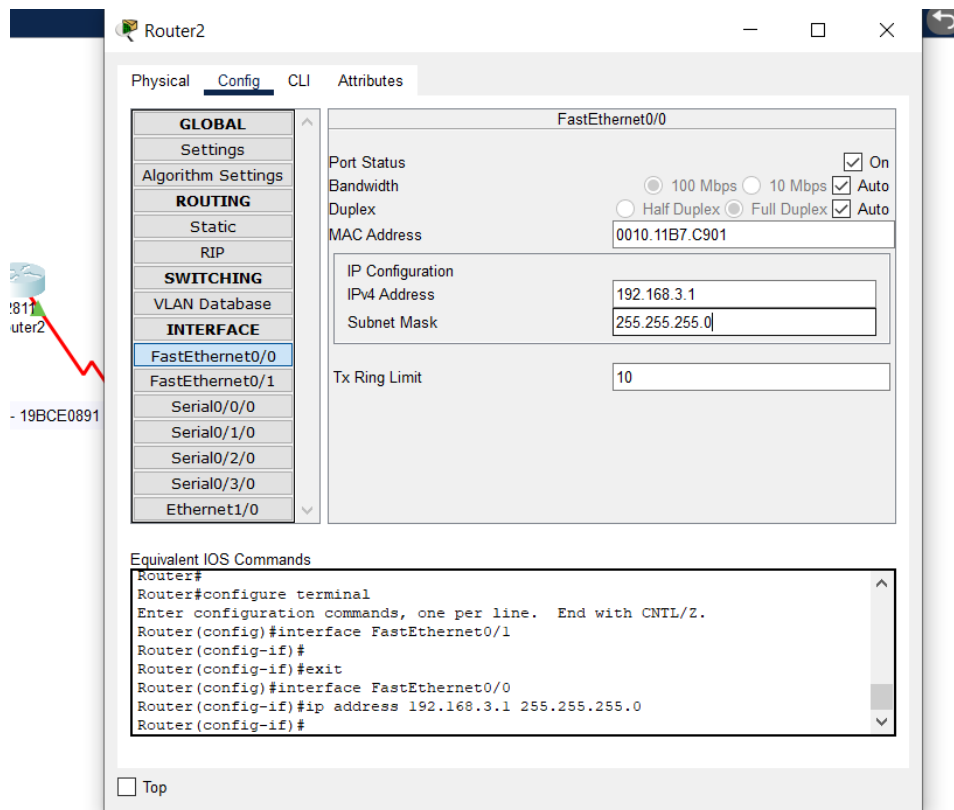
IP Configuration  
 IPv4 Address 192.168.2.1  
 Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Ethernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

☐ Top

**ROUTER 2 CONFIG**


Router2

Physical Config CLI Attributes

**GLOBAL**

- Settings
- Algorithm Settings
- ROUTING**
  - Static
  - RIP
- SWITCHING**
  - VLAN Database
- INTERFACE**
  - FastEthernet0/0
  - FastEthernet0/1
  - Serial0/0/0
  - Serial0/1/0
  - Serial0/2/0
  - Serial0/3/0
  - Ethernet1/0

**FastEthernet0/0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0010.11B7.C901

IP Configuration

IPv4 Address 192.168.3.1

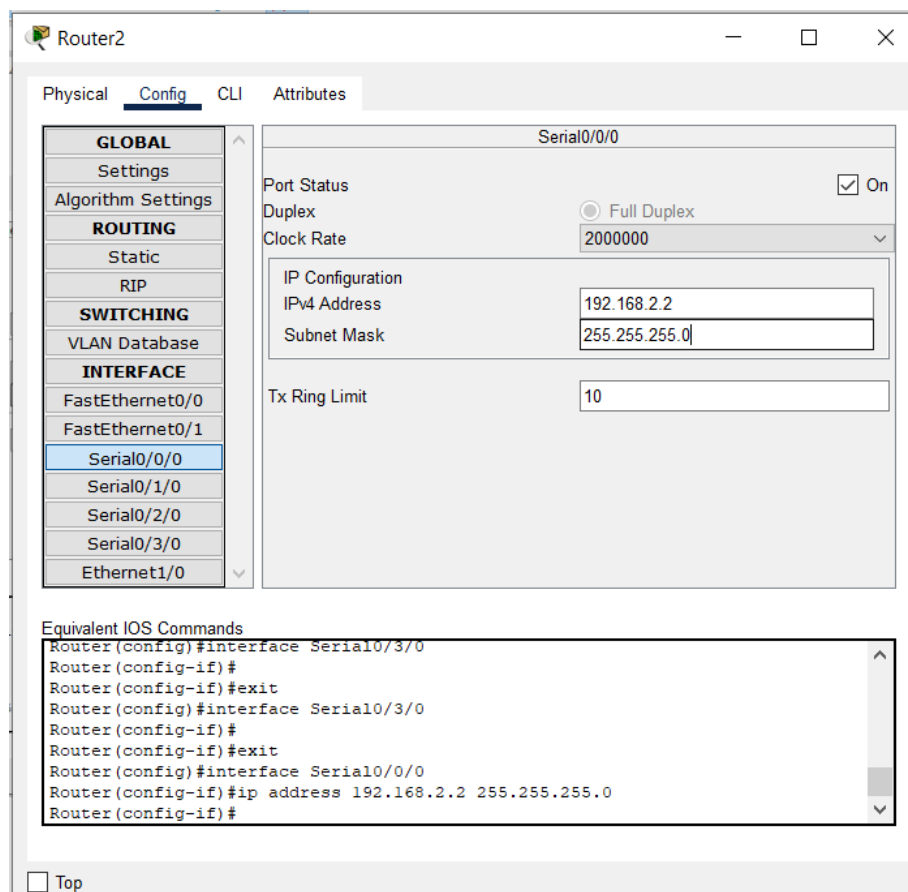
Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.3.1 255.255.255.0
Router(config-if)#
```

☐ Top



Router2

Physical Config CLI Attributes

**GLOBAL**

- Settings
- Algorithm Settings
- ROUTING**
  - Static
  - RIP
- SWITCHING**
  - VLAN Database
- INTERFACE**
  - FastEthernet0/0
  - FastEthernet0/1
  - Serial0/0/0
  - Serial0/1/0
  - Serial0/2/0
  - Serial0/3/0
  - Ethernet1/0

**Serial0/0/0**

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 2000000

IP Configuration

IPv4 Address 192.168.2.2

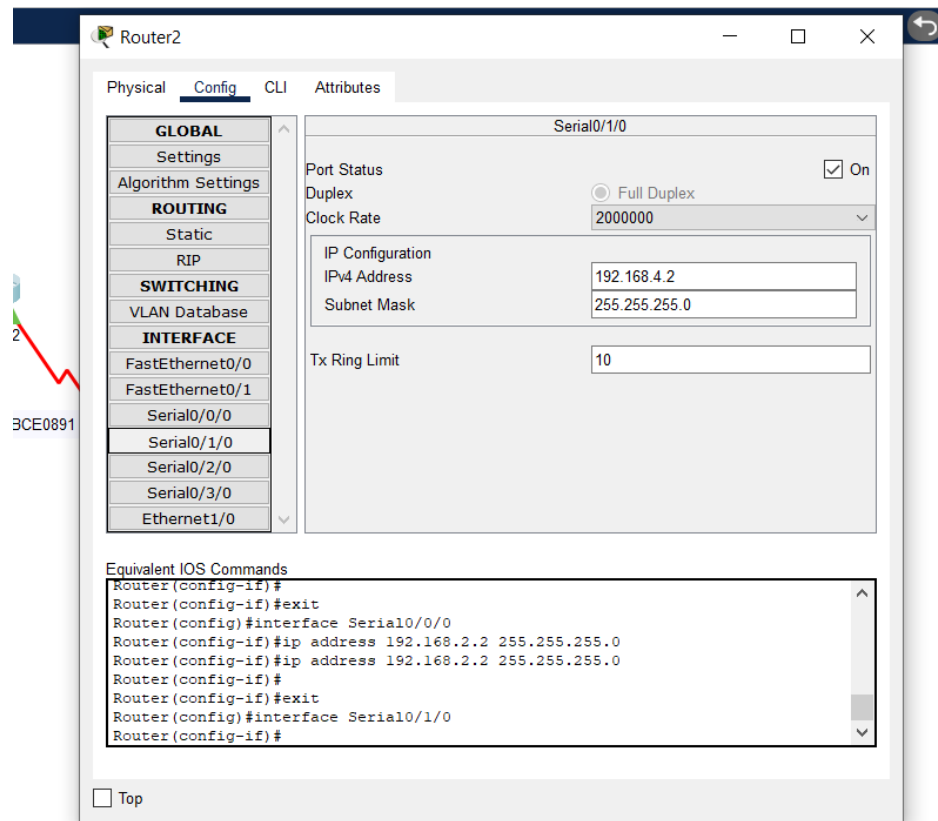
Subnet Mask 255.255.255.0

Tx Ring Limit 10

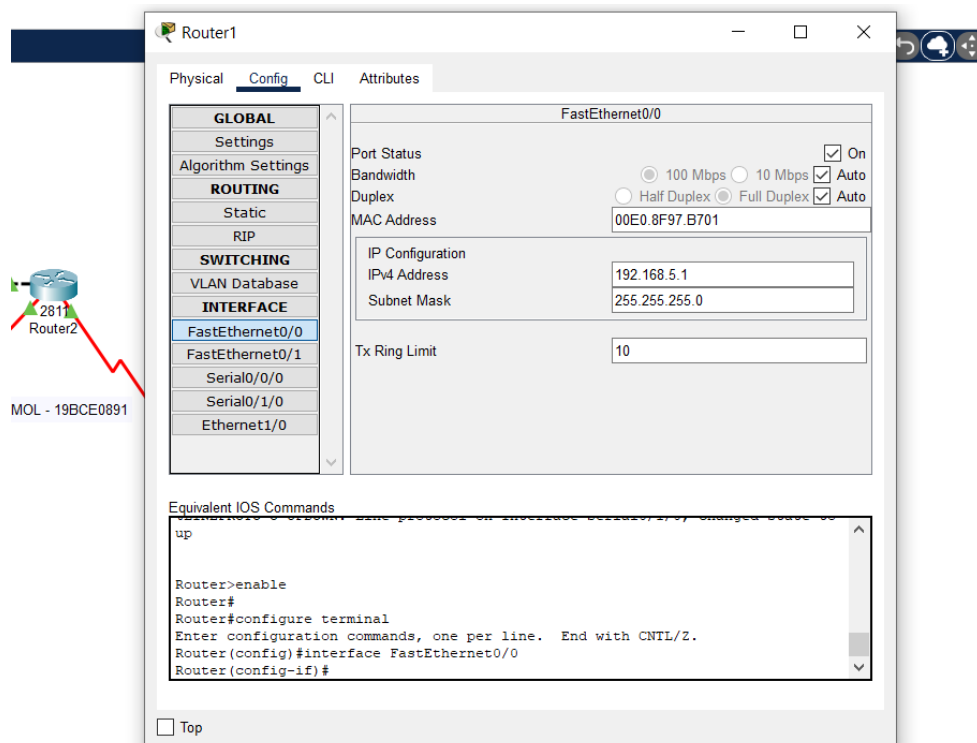
Equivalent IOS Commands

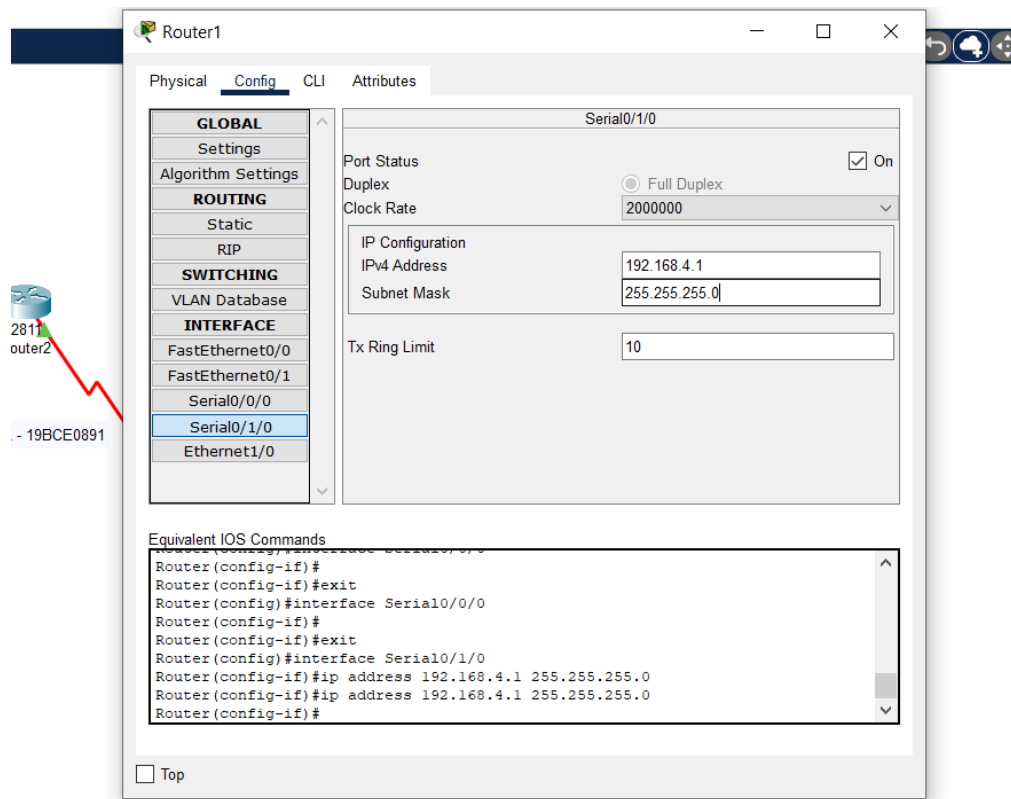
```
Router(config)#interface Serial0/3/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/3/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#
```

☐ Top

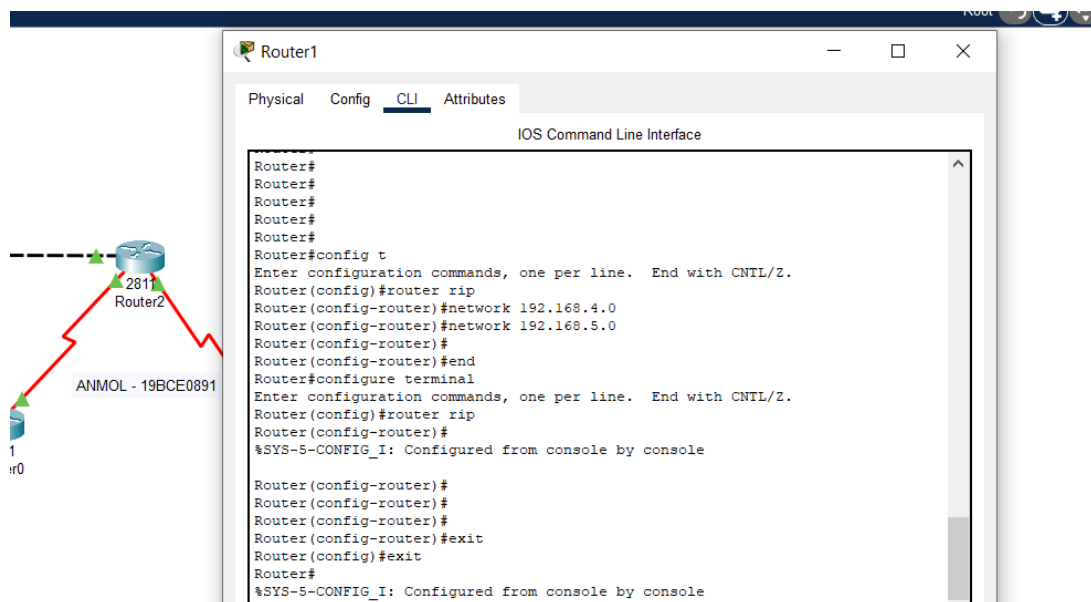


## ROUTER 1 CONFIG

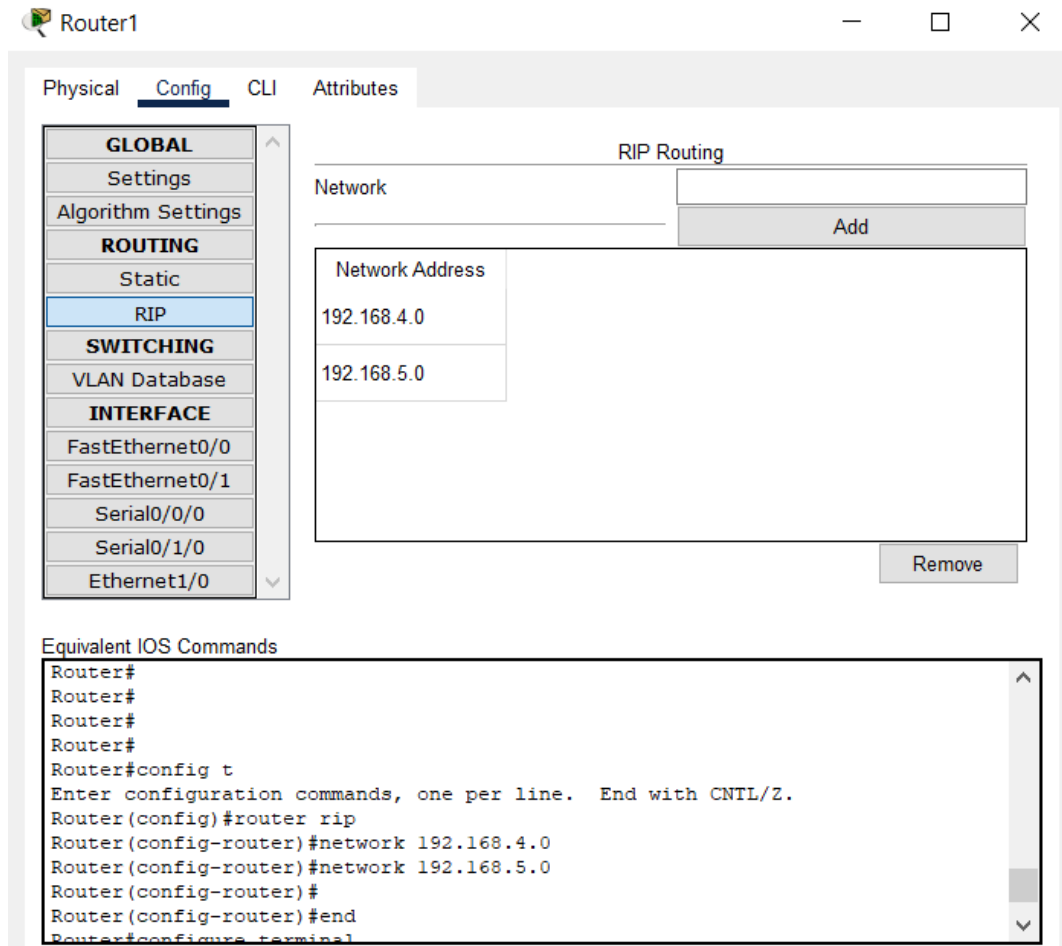




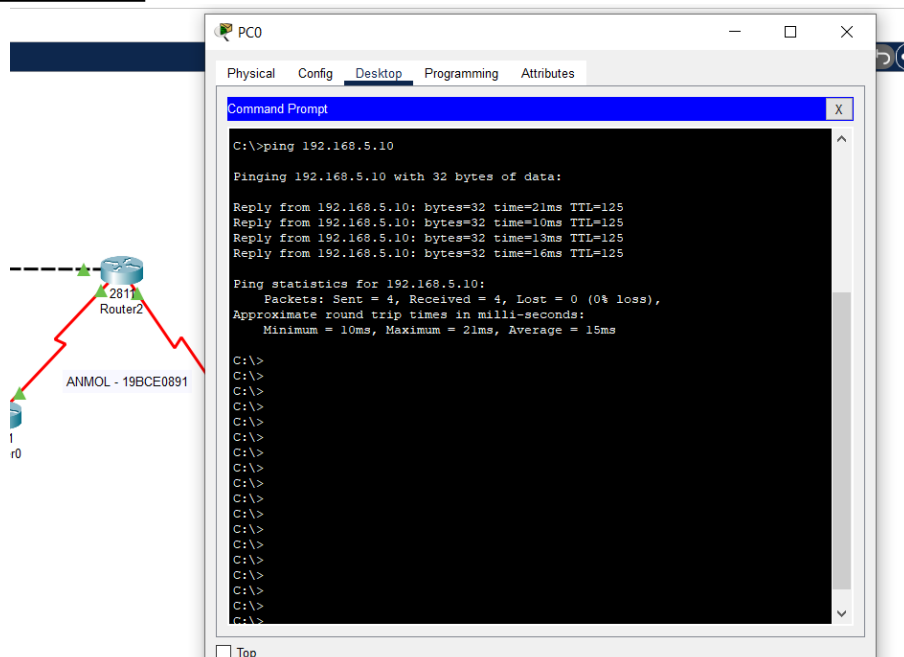
### ADDING RIP TO ROUTER 1 (similarly to all routers)

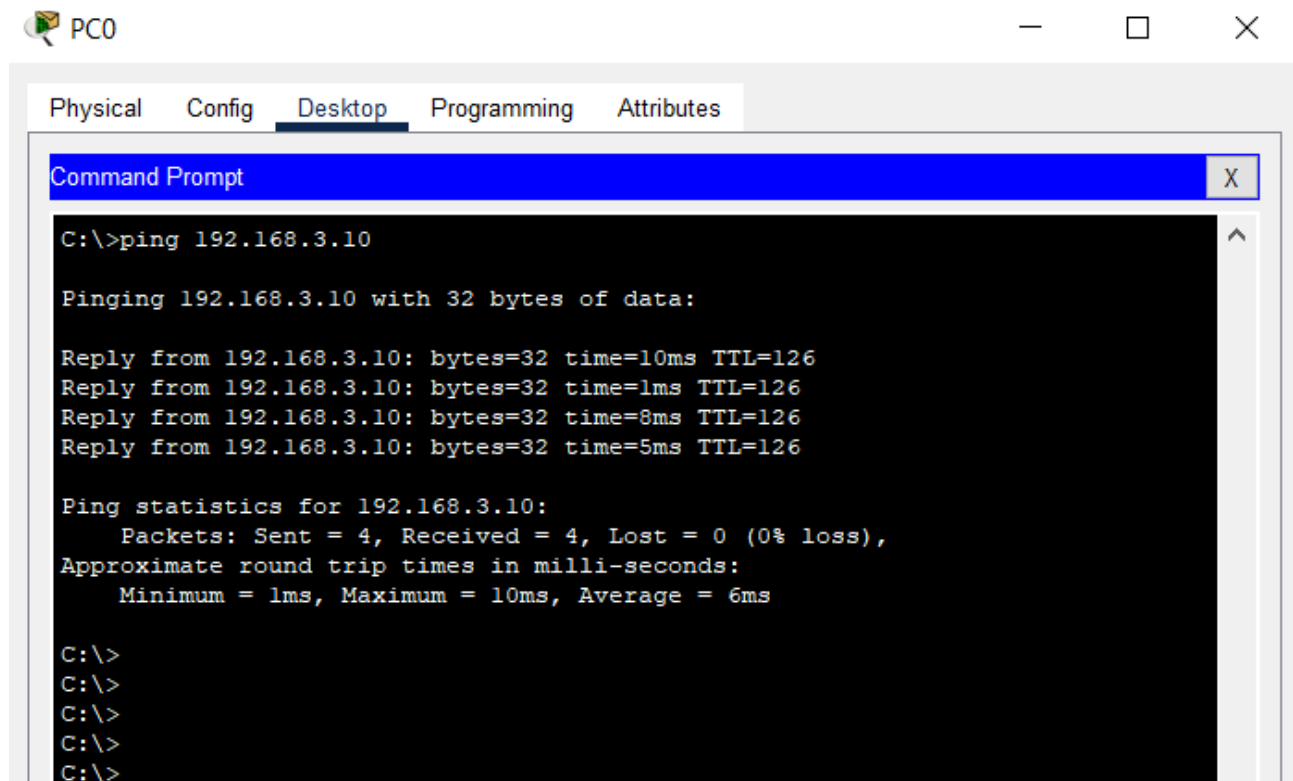


**RIP CAN ALSO BE ADDED USING GUI (ADDED NETWORKS CAN BE SEEN)**



**PINGING PC0 TO PC2**



**PINGING PC0 TO PC1**

**NOTE :** ALL IP'S AND ROUTER CONFIGURATIONS CAN BE ADDED THROUGH GUI AS WELL AS CMD PROMPT

**FOR COMMAND LINE INTERFACE (BELOW ARE like COMMANDS)****router 0**

```
Router>enable
Router#config t
Router(config)#int fa0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config)#int s0/0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#exit
Router(config)#exit

Router(config)#router rip
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#exit
Router(config)#exit
```

(similarly for all routers with respectively ip addresses and networks)