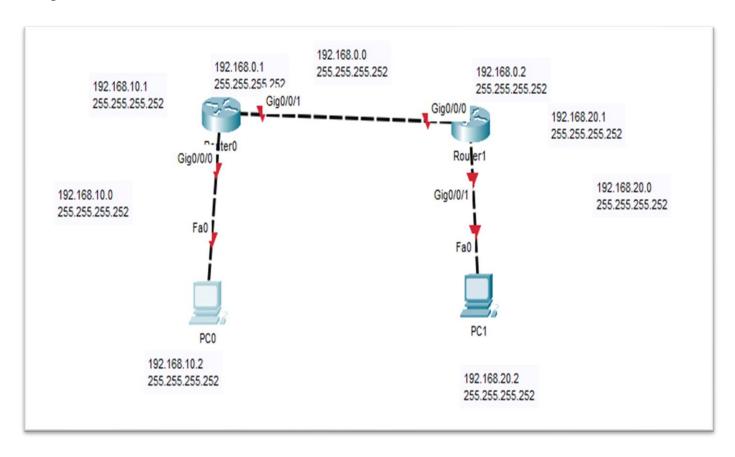
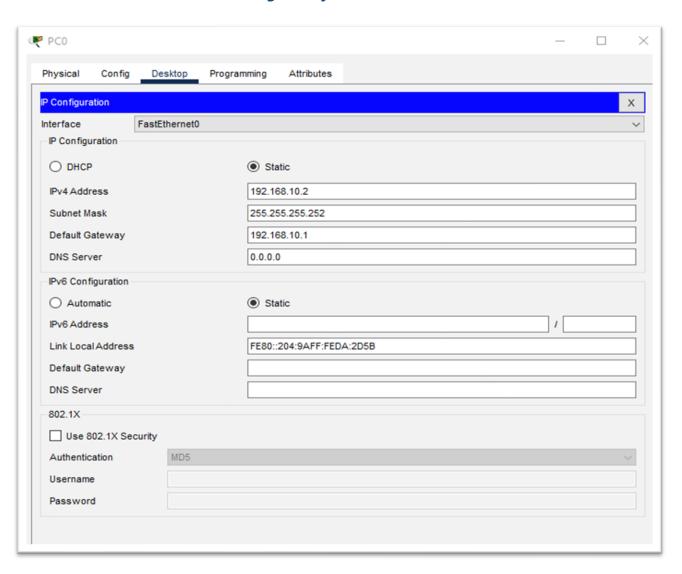
## **EIGRP Configuration Step by Step Guide**

- ✓ Enhanced Interior Gateway Routing Protocol (EIGRP)
- ✓ An advanced distance-vector routing protocol
- ✓ Used for automating routing decisions and configuration
- ✓ Used on a router to share routes with other routers within the same autonomous system.

**Step 1**: Add place note in all devices for IP address and subnet mask.



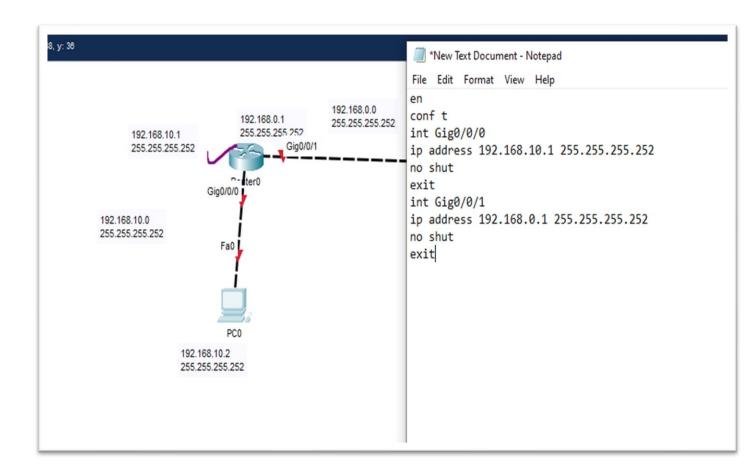
# **Step2**: Configure each end devices (PC, laptop, mobile etc) by adding IP address, subnet mask and default gateway IP.

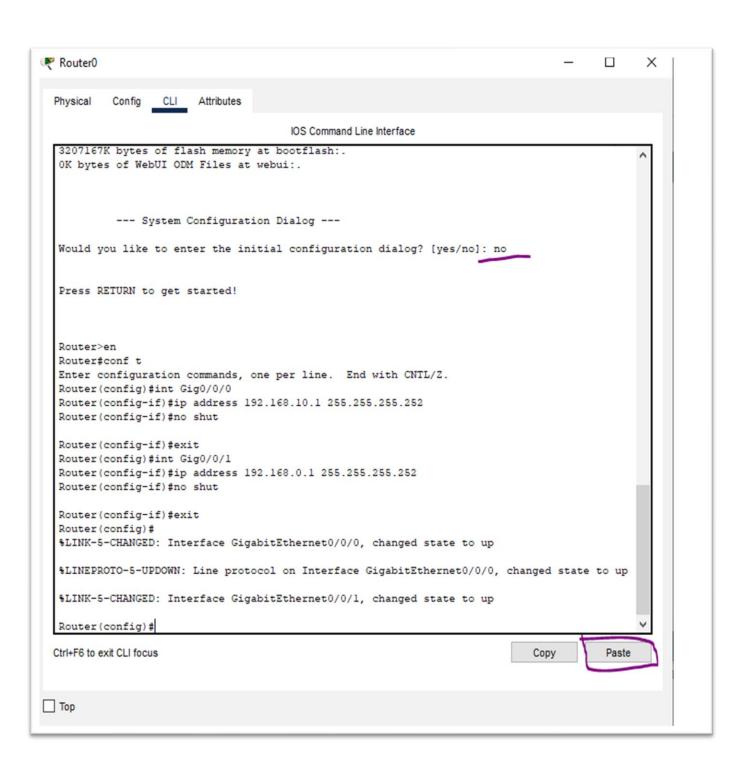


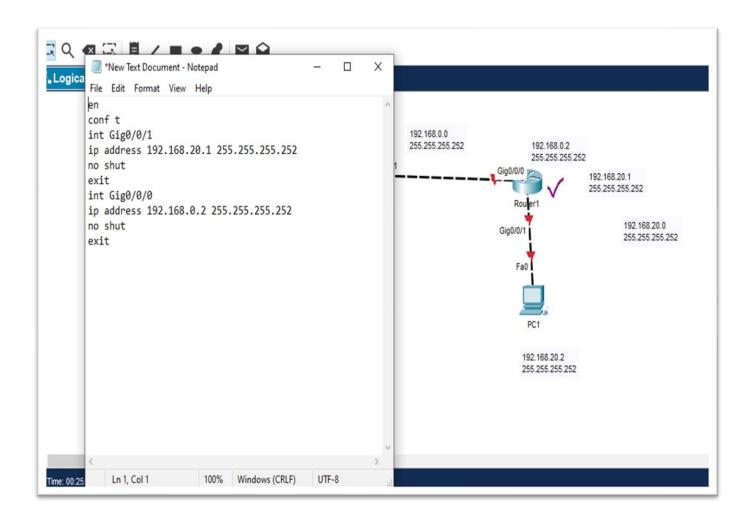
#### **Step3:** Configure each router by writing command in CLI.

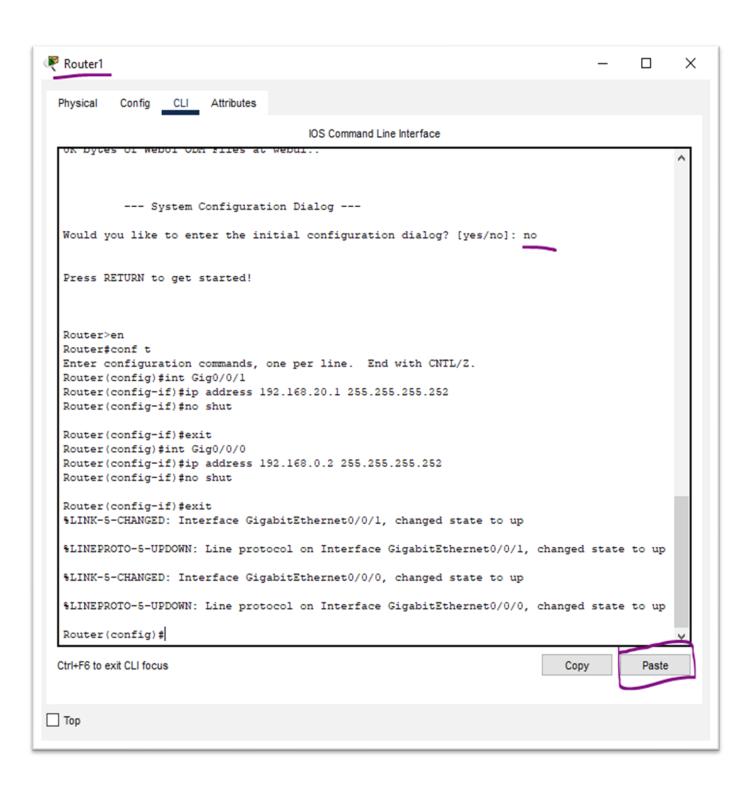
The commands are as follows. Write the same command if more than one port is used in the router.

```
Router>en
Router# conf t
Router(config)# int port_number
Router(config-if)# ip address gateway_ip subnet_mask
Router(config-if)#no shutdown
Router(config-if)#exit
```





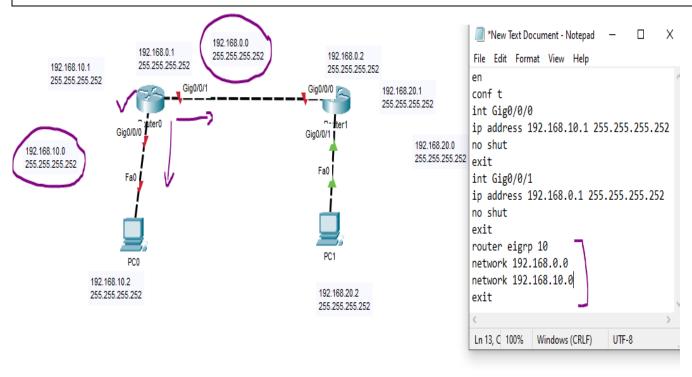


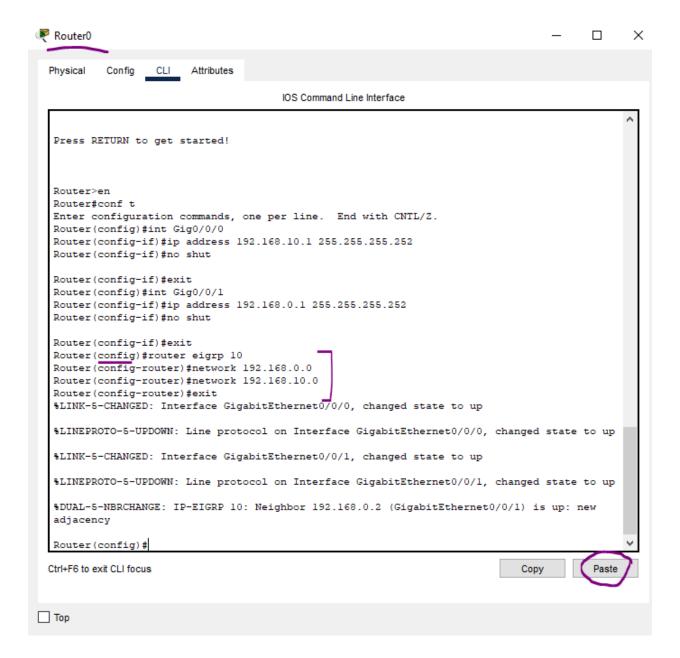


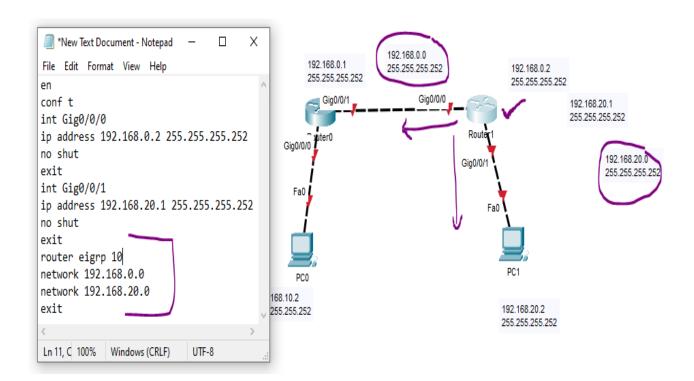
#### **Step4**: Configure RIP for each router by writing command in CLI.

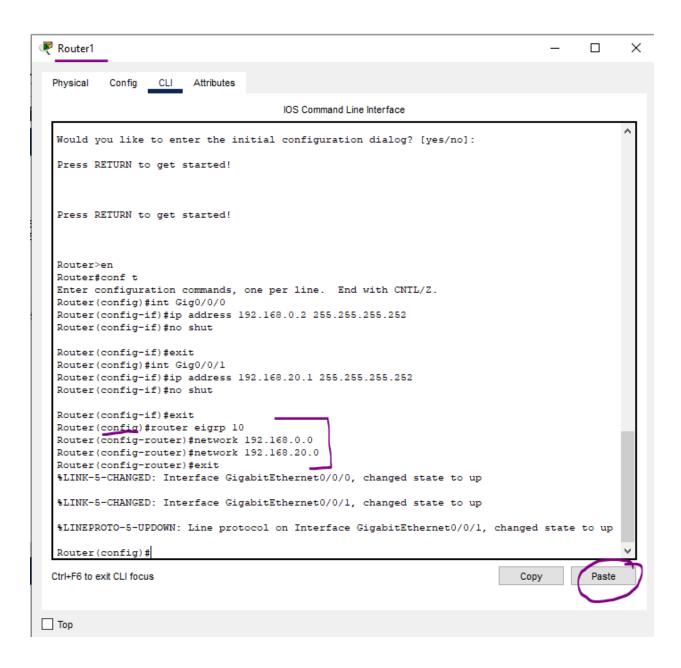
The commands are as follows:

```
Router0(config) #router eigrp autonomous_system_number
Router0(config-router) # network connected_network_IP
Router0(config-router) # network connected_network_IP
Router(config-if) #exit
```

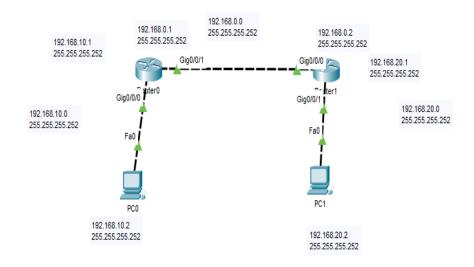


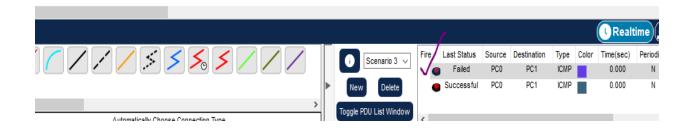






### **Step5:** Pass the packet from one subnet to another subnet and check the status.





## **Command description:**

Command	Description
Router>en	Enable global configuration mode
Router# conf t	Enter in global configuration mode
Router(config)#int Gig0/0/0	Enter interface mode from global configuration mode
Router(config-if)#ip address 192.168.10.1 255.255.255.252	Assign IP to the interface ( eg. Gig0/0/0)
Router(config-if)#no shutdown	Bring the interface up
Router(config-if)#exit	Return in global configuration mode
Router(config)#router eigrp 10	Enable EIGRP routing protocol in router. We can use any ASN (Autonomous System Number) from 1 to 65,535. In order to become EIGRP neighbors this number must be same on all participates.
Router(config-router)# network 192.168.10.0	Enable EIGRP on all interfaces which belong to network 192.168.10.0

#### Written by:

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