- **OBJECTIVE:** To configure 2 routers, connecting them with the OSPF protocol

- **CODE:**

Router 1 (DCE):

```
>en
#config terminal
(config)#interface gi 0/0
(config-if)#ip address 192.168.10.1 255.255.255.0
(config-if)#no shutdown
(config-if)#exit
(config)#interface se 0/1/0
(config-if)#ip address 10.0.0.1 255.0.0.0
(config-if)#clock rate 64000
(config-if)#no shutdown
(config-if)#exit
(config)#router ospf 2
(config-router)#network 192.168.10.0 0.0.0.255 Area 1
(config-router)#network 10.0.0.0 0.255.255.255 Area 1
```

Router 2 (DTE):

```
>en
#config terminal
(config)#interface gi 0/0
```

(config-if)#ip address 192.168.11.1 255.255.255.0

(config-if)#no shutdown

(config-if)#exit

(config)#interface se 0/1/0

(config-if)#ip address 10.0.0.2 255.0.0.0

(config-if)#no shutdown

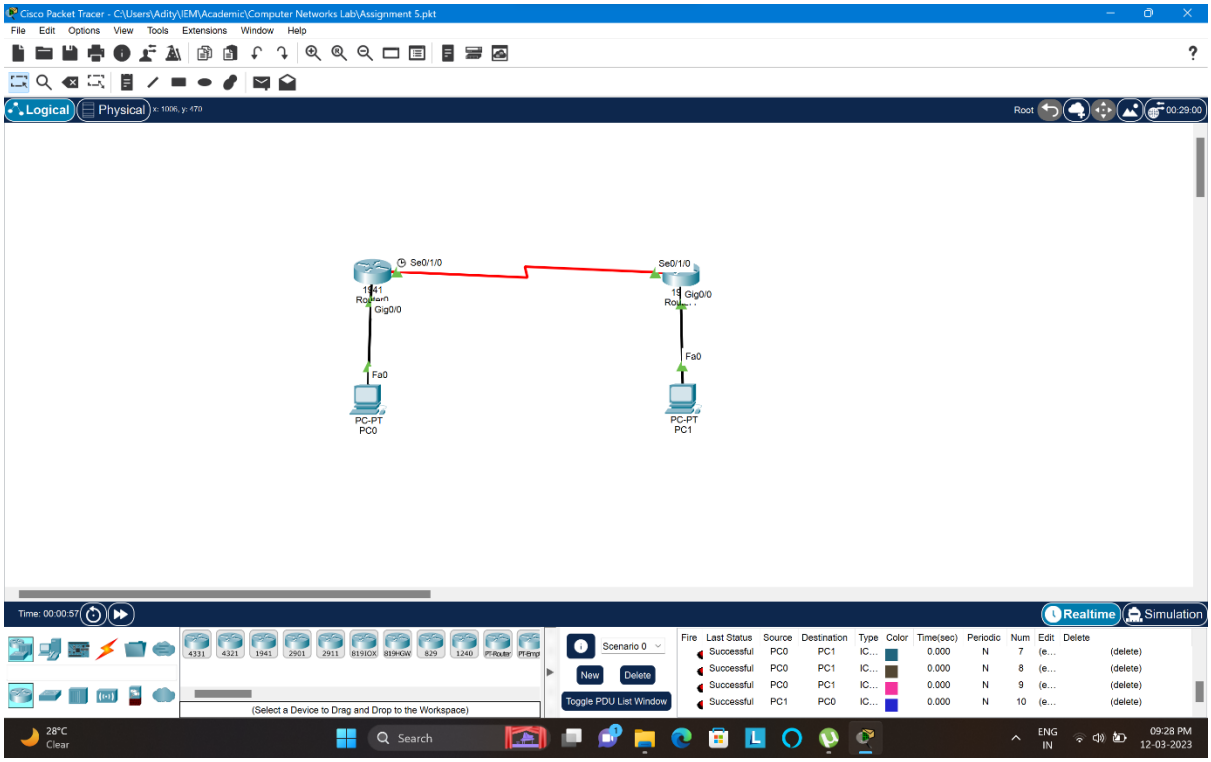
(config-if)#exit

(config)#router ospf 2

(config-router)#network 192.168.11.0 0.0.0.255 Area 1

(config-router)#network 10.0.0.0 0.255.255.255 Area 1

- **OUTPUT:**



- **IPv4 CONFIGURATION:**

PC-PT PC0
IP Address: 192.168.10.2
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.10.1
Wild Card Mask: 0.0.0.255

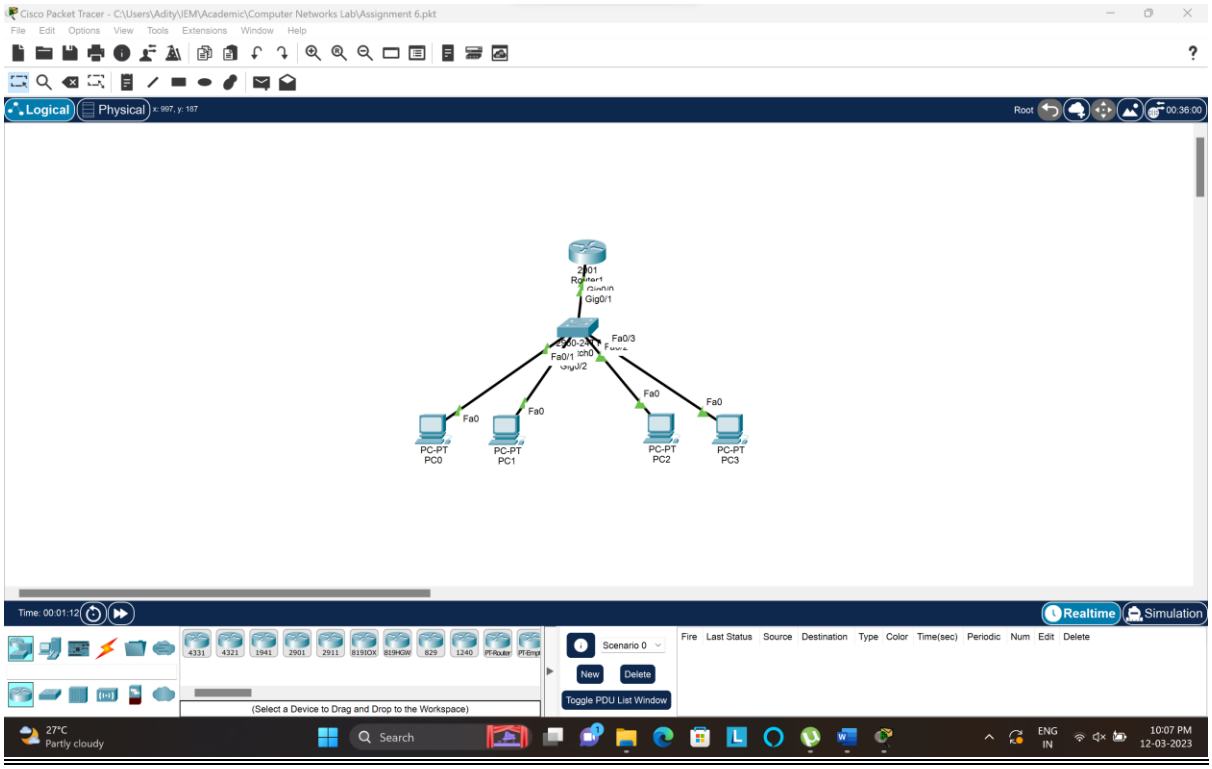
PC-PT PC1
IP Address: 192.168.11.2
Subnet Mask: 255.0.0.0
Default Gateway: 192.168.11.1
Wild Card Mask: 0.255.255.255

- **OBJECTIVE:** To assign IP addresses to a network of 4 terminals using the access point DHCP protocol.

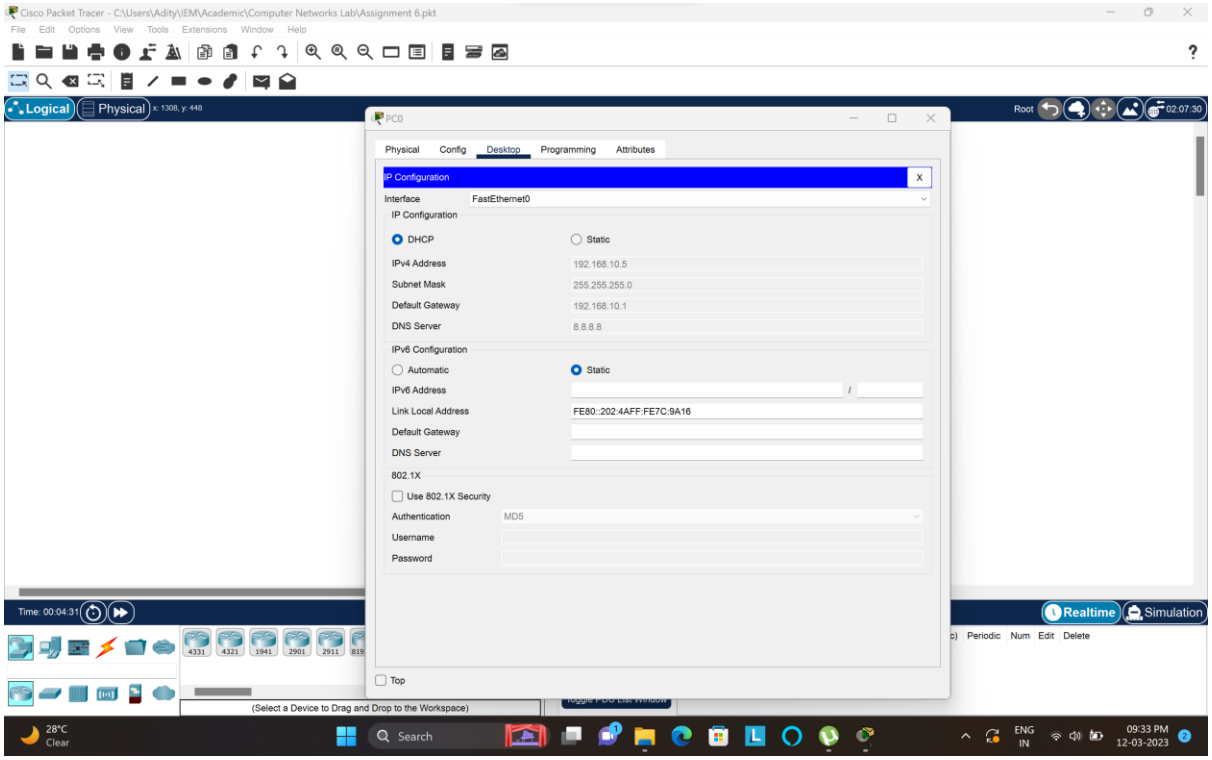
- **CODE:**

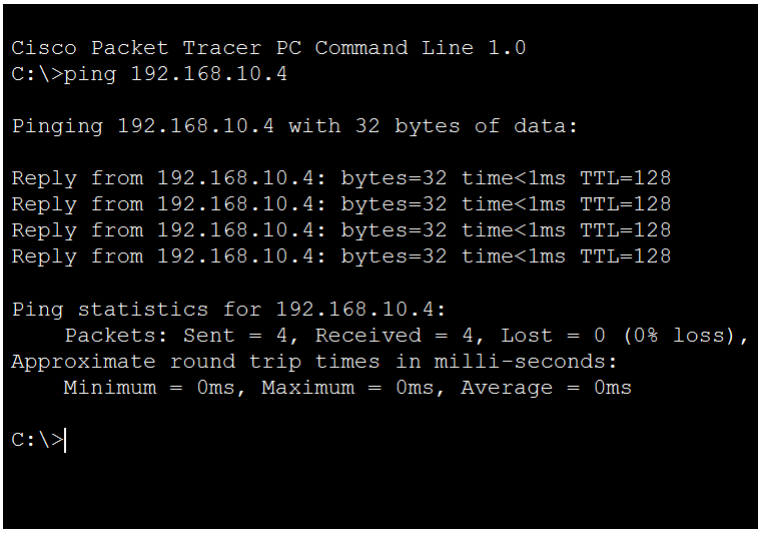
```
>en
#config terminal
(config)#interface gi 0/0
(config-if)#ip address 192.168.10.1 255.255.255.0
(config-if)#no shutdown
(config-if)#exit
(config)#ip dhcp pool a
(config-dhcp)#network 192.168.10.0 255.255.255.0
(config-dhcp)#default-router 192.168.10.1
(config-dhcp)#dns 8.8.8.8
```

- **NETWORK LAYOUT:**



- **OUTPUT:**




Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.4
Pinging 192.168.10.4 with 32 bytes of data:
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>