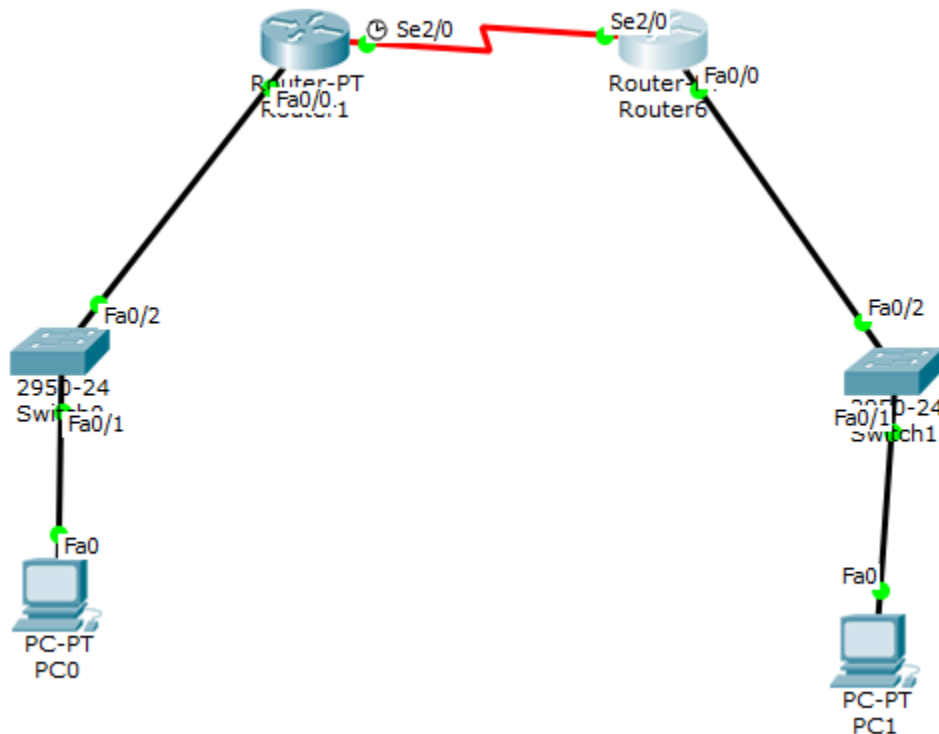


## **Program – 7:**

**Aim:** Configure RIP routing Protocol in Routers.

**Topology:**



## **Procedure:**

### **1. Topology**

- Two routers connected using Serial DCE.
- Router0 ↔ Router1.
- Router0 connected to Switch0 → PC0.
- Router1 connected to Switch1 → PC1.

### **2. PC Configuration**

- **PC0**
  - IP Address: 192.168.1.2
  - Default Gateway: 192.168.1.1
- **PC1**
  - IP Address: 192.168.2.2
  - Default Gateway: 192.168.2.1

### **3. Router0 Configuration**

- Go to CLI:
  - enable
  - configure terminal
- Configure FastEthernet0/0:
  - interface Fa0/0
  - ip address 192.168.1.1 255.255.255.0
  - no shutdown
  - exit

- Configure Serial Interface:
  - interface Se0/2
  - clock rate 64000
  - ip address 10.10.0.2 255.255.255.252
  - no shutdown
  - exit
- Configure RIP:
  - router rip
  - network 192.168.1.0
  - network 10.0.0.0
  - exit
- Save:
  - write memory

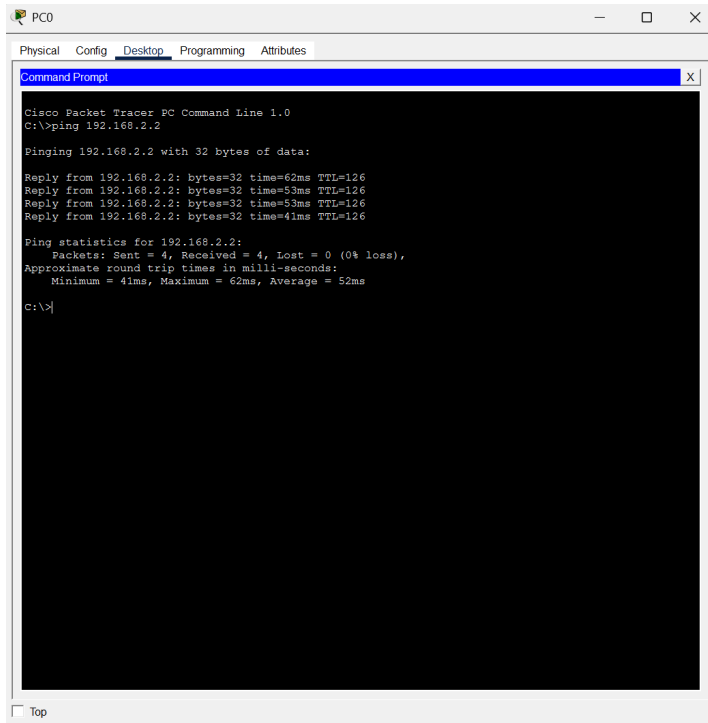
#### **4. Router1 Configuration**

- Go to CLI:
  - enable
  - configure terminal
- Configure FastEthernet0/0:
  - interface Fa0/0
  - ip address 192.168.2.1 255.255.255.0
  - no shutdown
  - exit
- Configure Serial Interface:
  - interface Se0/2
  - clock rate 64000
  - ip address 10.0.0.3 255.255.255.252
  - no shutdown
  - exit
- Configure RIP:
  - router rip
  - network 192.168.2.0
  - network 10.0.0.0
  - exit
- Save:
  - write memory

#### **5. RIP Networks Used**

- Router0: 192.168.1.0 and 10.0.0.0
- Router1: 192.168.2.0 and 10.0.0.0

#### **Output:**



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=62ms TTL=126
Reply from 192.168.2.2: bytes=32 time=53ms TTL=126
Reply from 192.168.2.2: bytes=32 time=53ms TTL=126
Reply from 192.168.2.2: bytes=32 time=41ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 41ms, Maximum = 62ms, Average = 52ms

c:\>
```

Fig 7.1 Ping PC0 to PC1