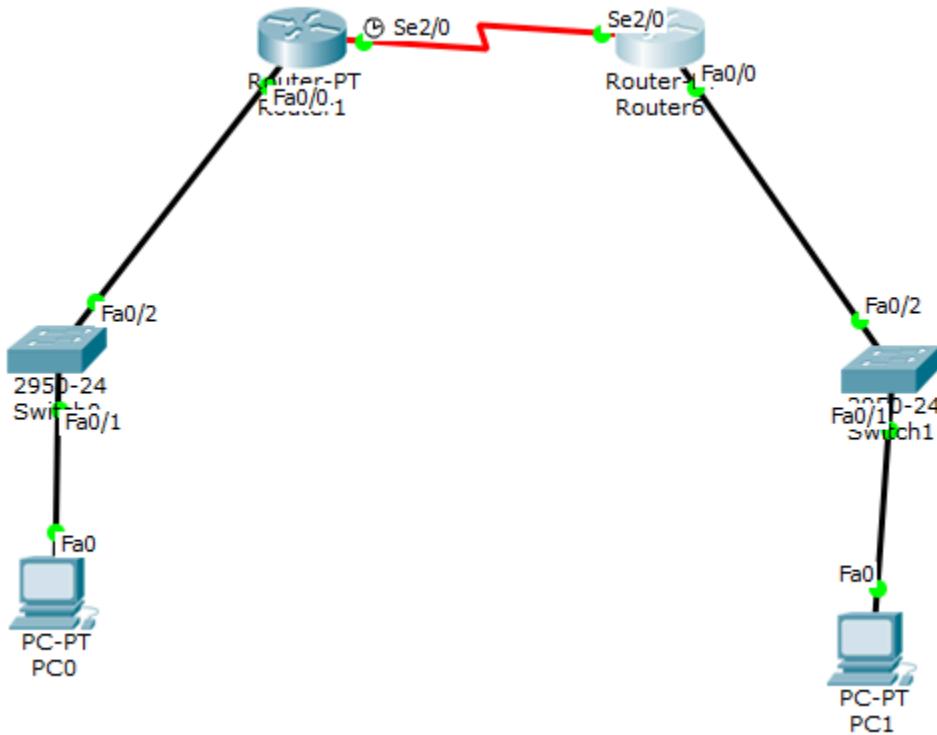


Program – 7:

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:

The screenshot shows a window titled "PC0" with a tab bar at the top containing "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Config" tab is currently selected. Below the tab bar is a title bar for "Command Prompt" with a close button "X". The main area of the window is a black terminal window displaying the output of a ping command. The text in the terminal is as follows:

```
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 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 41ms, Maximum = 62ms, Average = 52ms

C:\>
```

Fig 7.1 Ping PC0 to PC1