Ex NO:11 SIMULATE RIP USING CISCO PACKET TRACER
DATE: 23.09.25

Assign IP address to PCs:

Double click PCs and click Desktop menu item and click IP configuration. Assign IP address to the PCs.

Assign IP address to interface of routers:

Double click Router0 and click CLI and press Enter key to access the command prompt of Router0.

Following commands are used to access the global configuration mode:

#enable
#configure terminal

Following commands will assign IP address on FastEthernet0/0

#interface fastEthernet 0/0
#ip address 10.0.0.1 255.0.0.0
#no shutdown
#exit.

Serial interfaces needs two additional parameters clock rate and bandwidth. These parameters are configured at DCE end.

#configure terminal.
#interface serial 0/0/0
#ip address 192.168.249 255.255.255.252
#clock rate 64000
#bandwidth 64
#no shutdown
#exit

In the same way, assign ip address for serial 0/0/1.

we will use same to assign IP addresses on interfaces of remaining routers.

For router1:

```
>enable
#~~enable~~ configure terminal
#interface serial 0/0/0
#ip address 192.168.1.250 255.255.255.252
#no shutdown
#exit
```

For router2:

```
>enable
#configure terminal
#interface fastEthernet 0/0
#ip address 20.0.0.1 255.0.0.0
#no shutdown
#exit.
```

We need to implement RIP routing protocol that will insist them to share the information.

=>Enable RIP routing protocol from global configuration mode

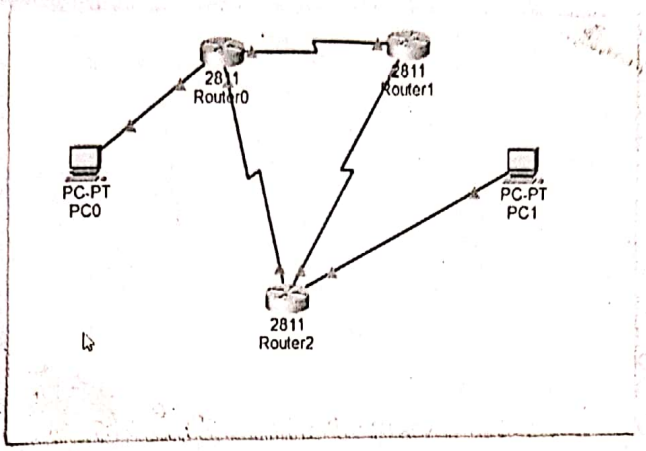
=> Tell RIP routing protocol which networks you want to advertise.

Router0:

```
#router rip
#network 10.0.0.0
#network 192.168.1.252
#network 192.168.1.248
```

Repeat the same way to assign networks in Router1 and Router2.

To verify the setup, we will use ping command.




```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=2ms TTL=126
Reply from 10.0.0.2: bytes=32 time=21ms TTL=126
Reply from 10.0.0.2: bytes=32 time=18ms TTL=126
Reply from 10.0.0.2: bytes=32 time=17ms TTL=126

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 21ms, Average = 14ms

C:\>tracert 10.0.0.2

Tracing route to 10.0.0.2 over a maximum of 30 hops:

  1    0 ms      0 ms      0 ms      20.0.0.1
  2    1 ms      2 ms      2 ms      192.168.1.254
  3    0 ms      20 ms     0 ms      10.0.0.2

Trace complete.

C:\>
```

Result:

Thus the simulation of RIP routing has been done successfully.

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