Networking Labs

Networking Lab - 8

OBJECTIVE:

To configure the routers with a Dynamic Interior Gateway Routing Protocol (R.I.P.)

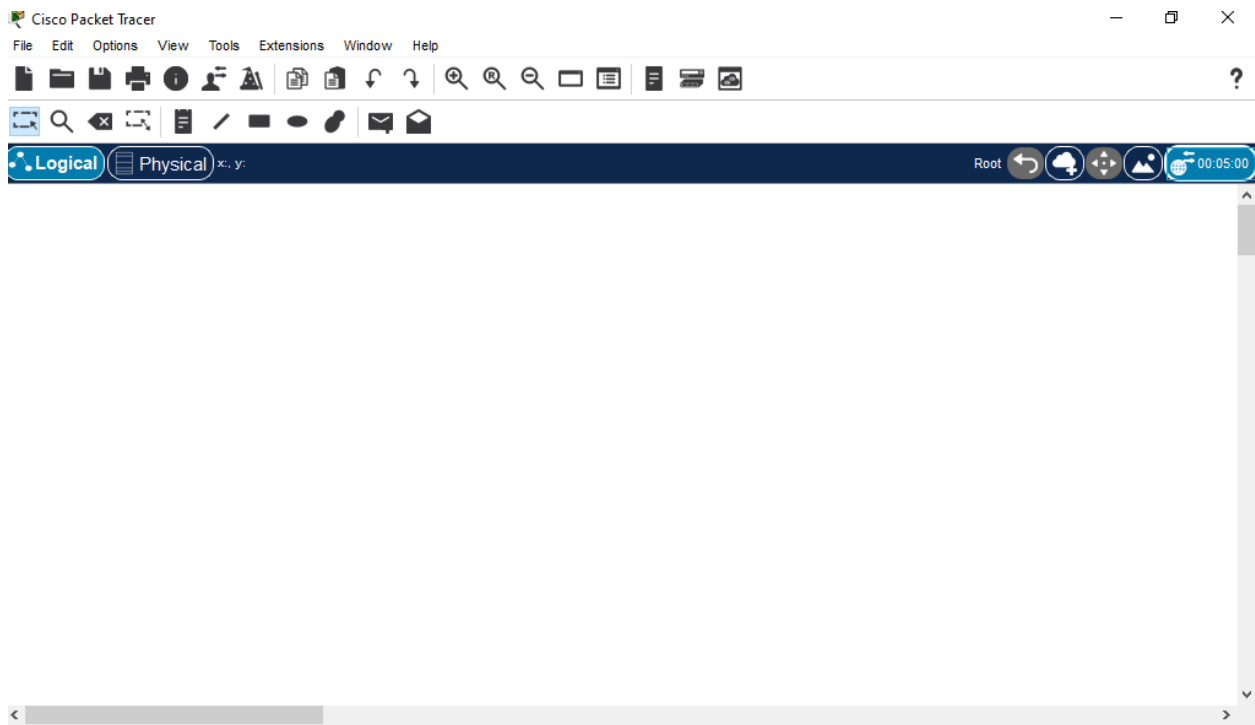**PRE-REQUISITES:**

Cisco packet tracer software installed.

STEPS:

• Start the packet tracer file included (Lab-7 Start), and have a look at the configuration.

• The IP addresses have been already inputted to the routers.

• Go to router 1 and update the RIP database in IP configuration.

• Repeat the process for router 2 and router 3.

• Check the connectivity using ping command in command prompt.

• Alternatively, use a PDU to check connectivity visually.

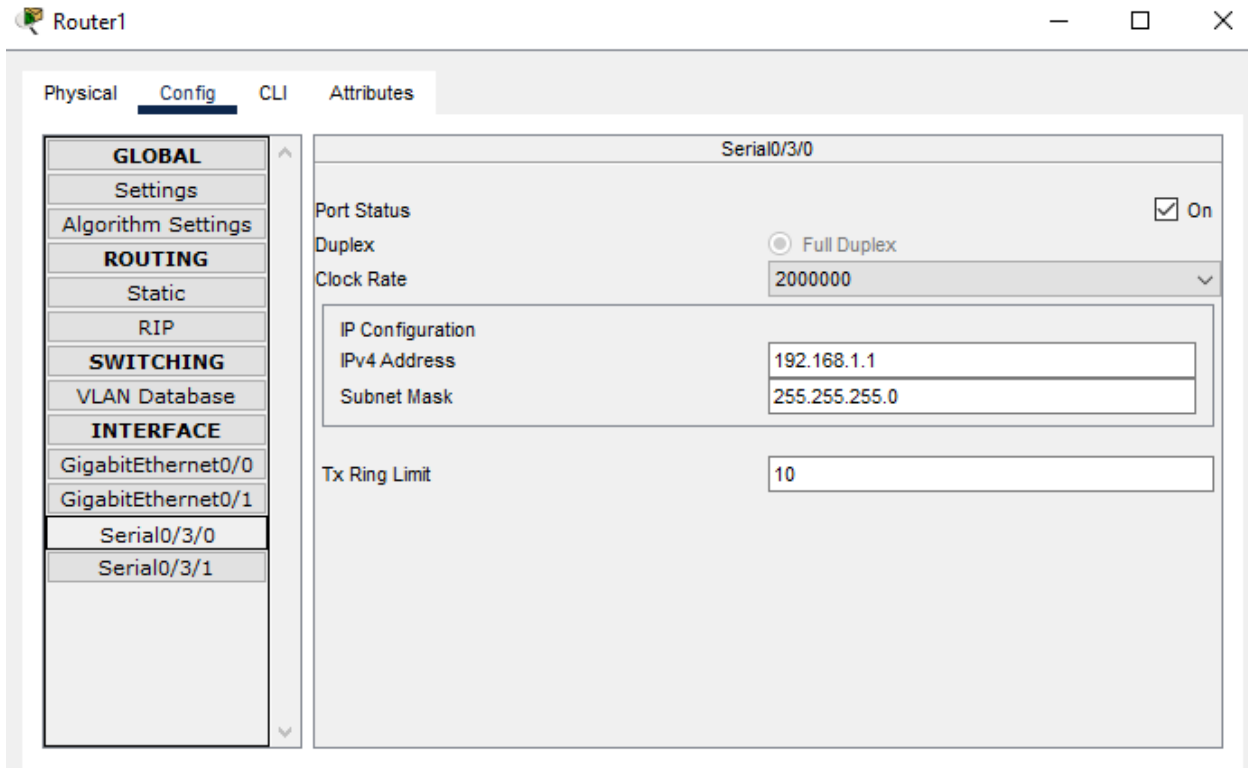• Use "traceroute" command to track the path of the data flow between networks.

Step1:-

Start the packet tracer file included (Lab-7 Start), and have a look at the configuration.

Step2:-

The IP addresses have been already inputted to the routers

Step3:- Go to router 1 and update the RIP database in IP configuration.

Step4:- Repeat the process for router 2 and router 3.

Router3:- ip configure

Step4:- Check the connectivity using ping command in command prompt.


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Physical    Config    Desktop    Programming    Attributes

Command Prompt                                                    X

Pinging 192.168.3.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.3: bytes=32 time=16ms TTL=126
Reply from 192.168.3.3: bytes=32 time=13ms TTL=126
Reply from 192.168.3.3: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.3.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 16ms, Average = 10ms

C:\>ping 192.168.3.4

Pinging 192.168.3.4 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.3.4:
    Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

Control-C
^C
C:\>ping 192.168.4.1

Pinging 192.168.4.1 with 32 bytes of data:

Reply from 192.168.4.1: bytes=32 time=2ms TTL=253
Reply from 192.168.4.1: bytes=32 time=2ms TTL=253
Reply from 192.168.4.1: bytes=32 time=2ms TTL=253
Reply from 192.168.4.1: bytes=32 time=11ms TTL=253

Ping statistics for 192.168.4.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 11ms, Average = 4ms

C:\>
```
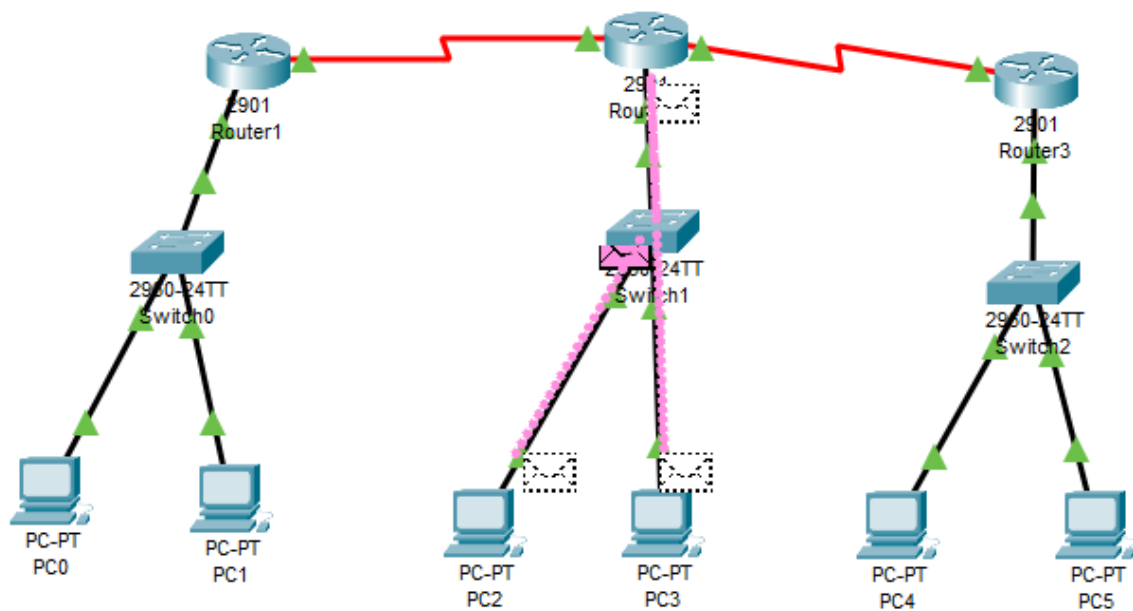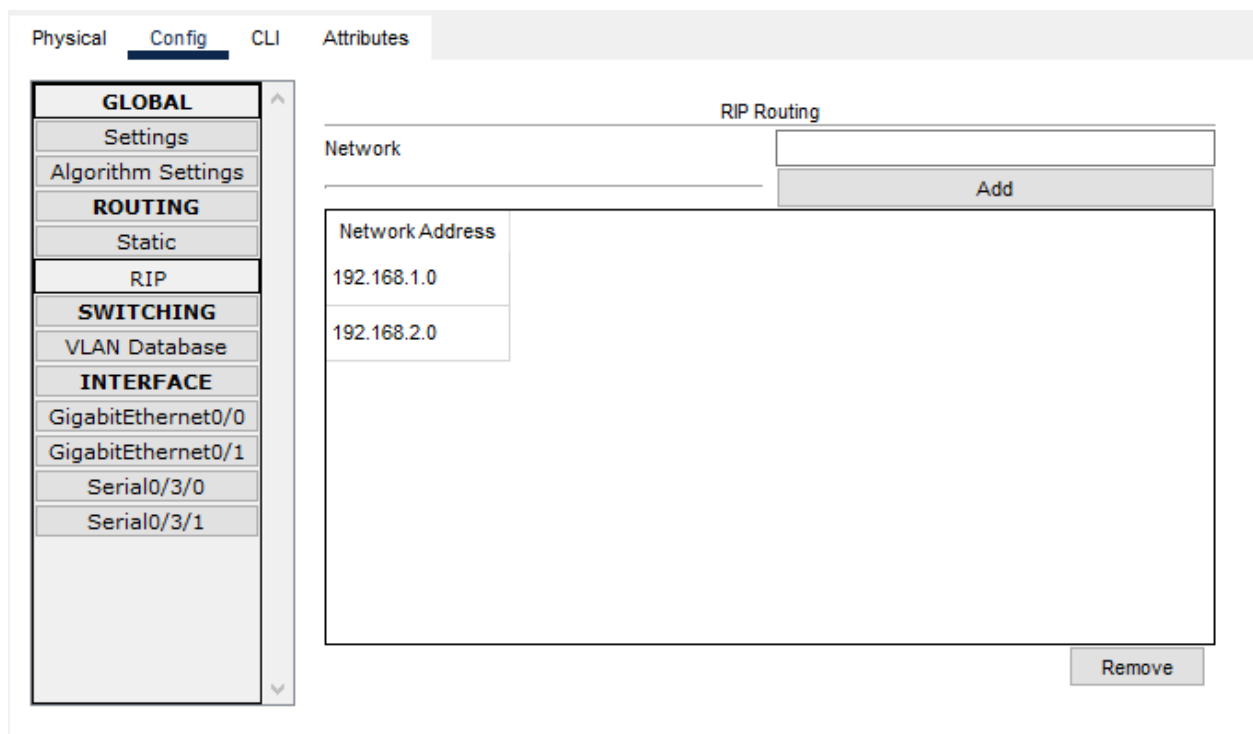
Step5:-Alternatively, use a PDU to check connectivity visually.

Step6:- Use "traceroute" command to track the path of the data flow between networks.

FINSH:-

To configure the routers with a Dynamic Interior Gateway Routing Protocol (R.I.P.)

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