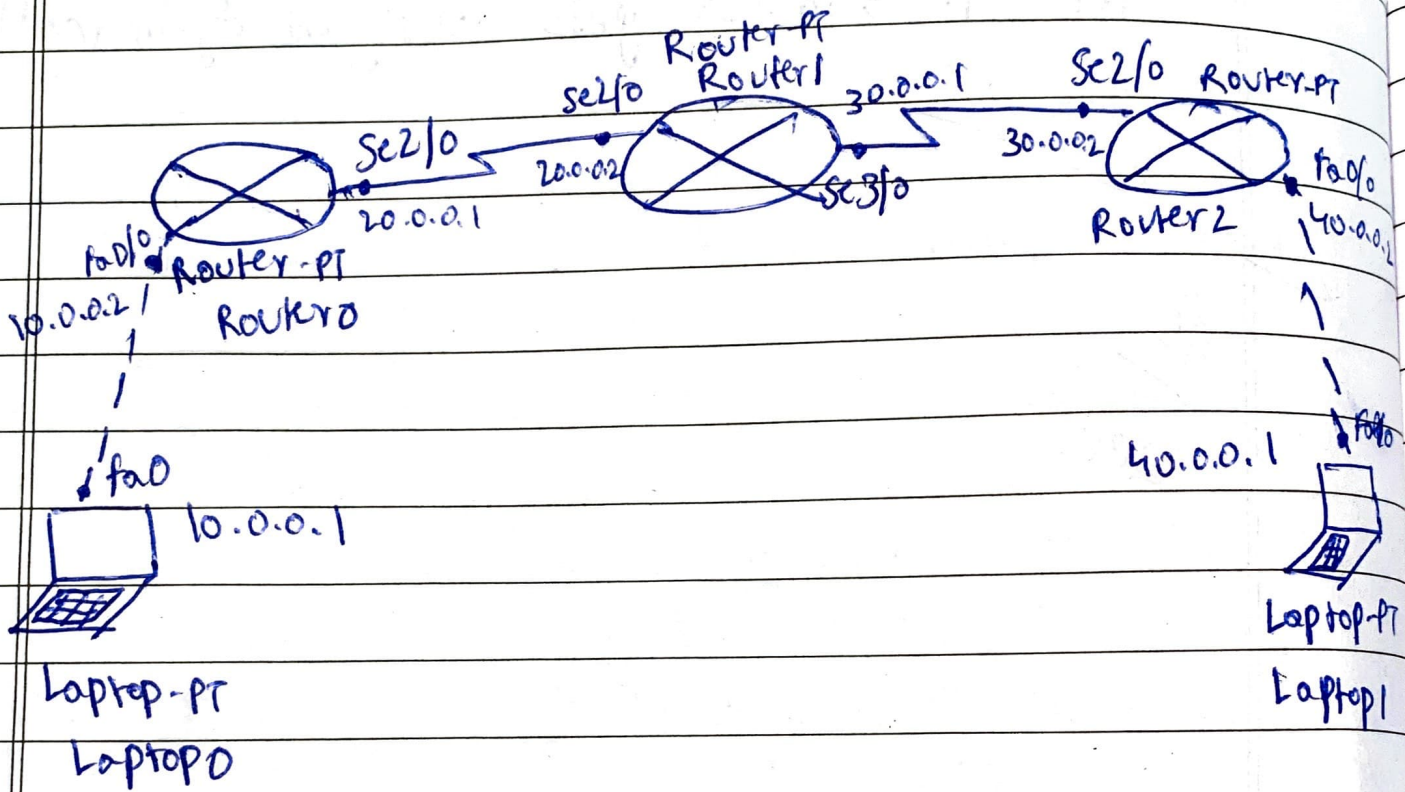# Lab 7

Configuring RIP routing protocol in Routers

Router 0 Configuration

interface fastEthernet 0/0

ip address 10.0.0.2 255.0.0.0

no shutdown

exit

interface serial 2/0

ip address 20.0.0.1 255.0.0.0

encapsulation ppp

clock rate 64000

no shutdown no shutdown

```
# router rip
# network 10.0.0.0
# network 20.0.0.0
# exit
```

Router1 Configuration

```
# interface serial 2/0
# ip address 20.0.0.2 255.0.0.0
# encapsulation PPP
# no shutdown
# exit
# interface serial 3/0
# ip address 30.0.0.1 255.0.0.0
# encapsulation PPP
# clock rate 64000
# no shutdown
# router rip
# network 20.0.0.0
# network 30.0.0.0
# exit
```

Router 2 Configuration

```
# interface serial 2/0
# ip address 30.0.0.2 255.0.0.0
# no encapsulation PPP
# no shutdown
# exit
```

\# interface fastEthernet 0/0

\# ip address 40.0.0.2 255.0.0.0

\# no shutdown

\# exit router rip

\# network 30.0.0.0

\# network 40.0.0.0

\# exit

Command prompt

PC> ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1 : bytes = 32 time=12ms TTL=125

Reply from 40.0.0.1: bytes=32 time=6ms TTL=125

Reply from 40.0.0.1: bytes=32 time=8ms TTL=125

Reply from 40.0.0.1: bytes=32 time=19ms TTL=125

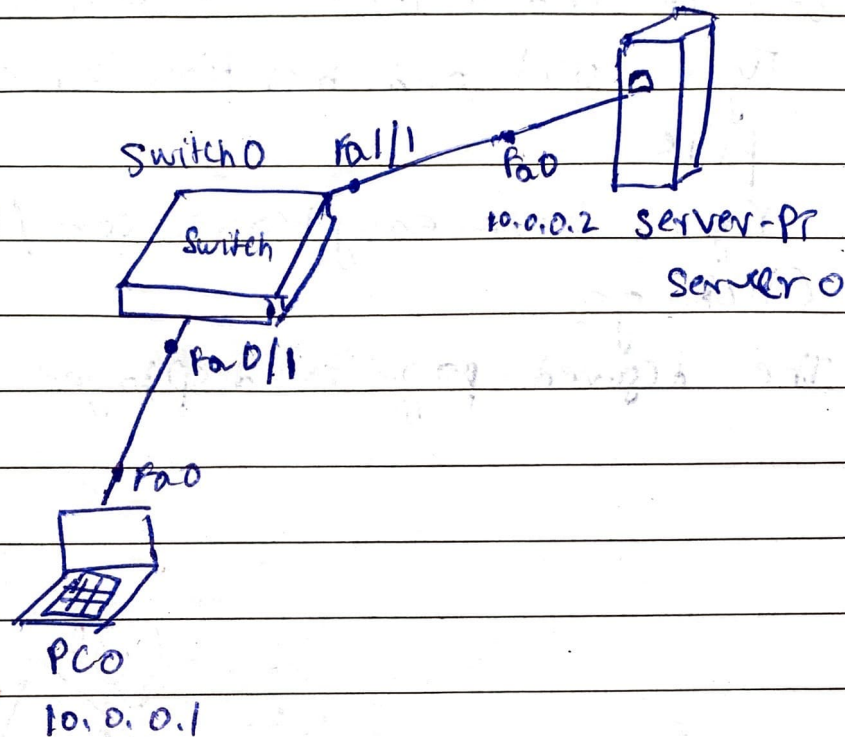Ping statistics for 40.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0

Approx. round trip times in milli-seconds:

Minimum = 6ms, Maximum=12ms, Average=9ms

Observation

Using RIP protocol we were able to relay routing table info. throughout the network, routers were able to identify the network not adjacent to them which helps send PDUs from one end device to another.

Demonstration of WEB server and DNS using Packet tracer

Switch0   Fa1/1   Fa0

Switch

Fa0/1

Fa0

10.0.0.2 server-PT
Server 0

PC0
10.0.0.1

Procedure:

→ Configure ip address for end device and server

→ Click on server → Services → DNS

→ Click on 'On' to enable DNS service

→ Give a name of a website (custom)

    Eg. www.easylearn.com

→ Give address of the server

→ Click on add

→ Make sure TFTP services are 'on'

→ Go to end device → Desktop → web browser

→ Type url and click go.

→ Again go to server → services → HTTP
→ Click on helloworld.html
→ Change the file and click on save
→ Go to end device → deskTop → web browser
→ Type - url and mention name of the saved file

Eg. www.easyrearh.com/helloworld.html

→ Click go
→ The desired page is displayed

15/12/22