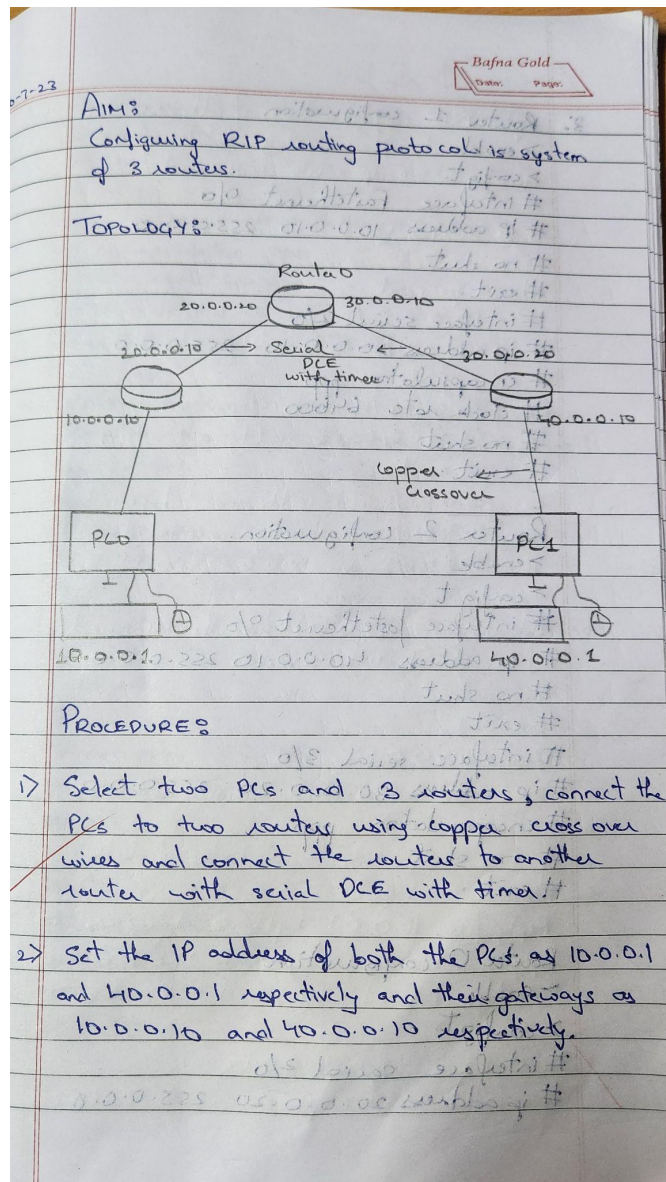


EXPERIMENT 5

AIM:

Configure RIP routing Protocol in Routers

OBSERVATION:



3. Router 1 configuration

```
>enable
>config t
#interface FastEthernet 0/0
#ip address 10.0.0.10 255.0.0.0
#no shut
#exit.
#interface serial 2/0
#ip address 20.0.0.10 255.0.0.0
#encapsulation ppp
#clock rate 64000
#no shut
#exit.
```

Router 2 configuration.

```
>enable
>config t
#interface fastethernet 0/0
#ip address 40.0.0.10 255.0.0.0
#no shut
#exit
```

```
#interface serial 3/0
#ip address 30.0.0.20 255.0.0.0
#encapsulation ppp
#no shut
#exit.
```

Router 0 configuration

```
>enable
>config t
#interface serial 2/0
#ip address 20.0.0.20 255.0.0.0
```



```
#encapsulation ppp
#no shut
#exit
#interface serial 3/0
#ip address 30.0.0.10 255.0.0.0
#encapsulation ppp
#clockrate 64000
#no shut
#exit
```

4. Now, network router configuration for Routing Information Protocol (RIP) is done as follows

```
Router 1
#router rip
#network 10.0.0.0
#network 20.0.0.0
```

```
#exit
```

Router 2

```
#router rip
#network 30.0.0.0
#network 40.0.0.0
#exit
```

Router 0

```
#router rip
#network 20.0.0.0
#network 30.0.0.0
#exit
```


5. After RIP configuration of all routers, we check the routing table of all by giving show ip route command.

For router 0

show ip rout

R 10.0.0.0/8 via 20.0.0.10, 00:00:13, serial
20.0.0.0/8 is variably subnetted, 2 subnets,
2 masks.

C 20.0.0.0/8 is directly connected, serial 2/0

C 30.0.0.0/8 is variably subnetted, 2 subnets,
2 masks.

C 30.0.0.0/8 is directly connected, serial 3/0

C 30.0.0.0/32 is directly connected, serial 3/0

R 40.0.0.0/8 via 30.0.0.20, 00:00:12, serial 3/0

6. Now, ping 10.0.0.1 from the command prompt of 40.0.0.1 and vice versa.

RESULT:

from 40.0.0.1

>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Request timed out

Reply from 10.0.0.1: bytes=32 time=12ms TTL=125

Reply from 10.0.0.1: bytes=32 time=12ms TTL=125

Reply from 10.0.0.1: bytes=32 time=2ms TTL=125

Ping statistics for 10.0.0.1:

Packets: sent=4, Received=3, Lost=01.

Approximate round trip time in milli-seconds.

Minimum = 2ms, Maximum = 8ms, Average = 2ms.

from 10.0.0.1

> Ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes=32 time=2ms TTL=125

Reply from 40.0.0.1: bytes=32 time=2ms TTL=125

Reply from 40.0.0.1: bytes=32 time=2ms TTL=125

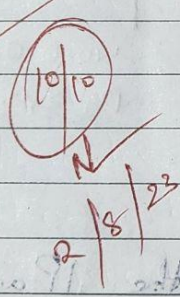
Reply from 40.0.0.1: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.1:

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

Approximate round trip time in milli-seconds:

Minimum = 2ms, Maximum = 8ms, Average = 2ms.



Result:

