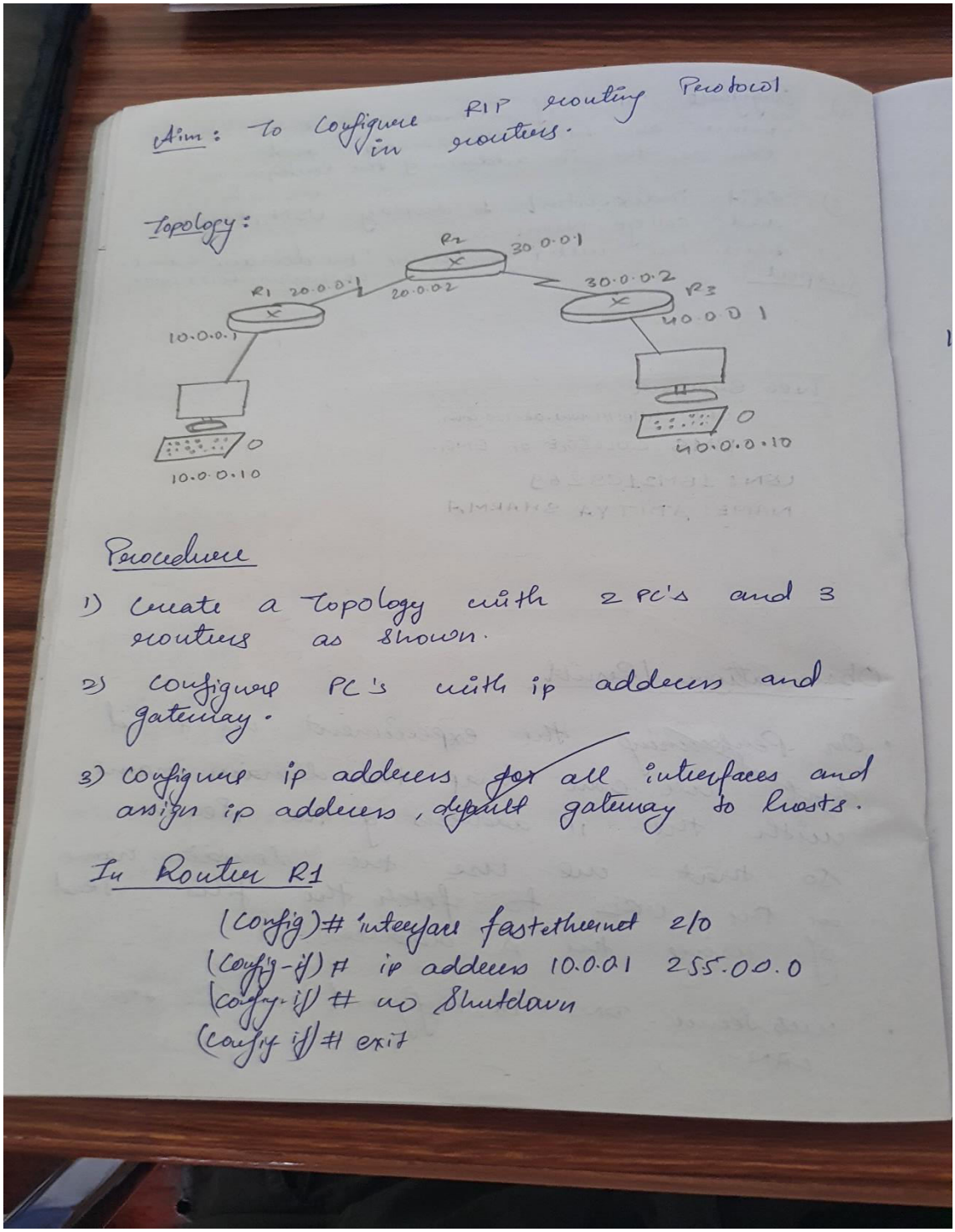
CN LAB 6

AIM: Configure RIP routing Protocol in Routers.

OBSERVATION:



(config) #interface Serial 1/0
(config-if) # ip address 20.0.0.1 255.0.0.0
(config-if) # encapsulation PPP
(config-if) # clock rate 64000
(config-if) # no Shutdown
(config-if) # exit.

In Router R2

(config) # interface Serial 1/0
(config-if) # ip address 20.0.0.2 255.0.0.0
(config-if) # encapsulation PPP
(config-if) # no Shutdown
(config-if) # exit.

(config) # interface Serial 1/1
(config-if) # ip address 30.0.0.1 255.0.0.0
(config-if) # encapsulation PPP
(config-if) # clock rate 64000
(config-if) # no Shutdown
(config-if) # exit.

In Router R3

(config) # interface Serial 1/0
(config-if) # ip address 30.0.0.2 255.0.0.0
(config-if) # encapsulation PPP
(config-if) # no Shutdown
(config-if) # exit

(config) # interface fastethernet 2/0
(config-if) # ip address 40.0.0.1 255.0.0.0
(config-if) # no Shutdown
(config-if) # exit

4) Configure RIP to all routers by using command

In Router R1

```
(config)# router rip
(config-router)# network 10.0.0.0
(config-router)# network 20.0.0.0
(config-router)# exit
```

In Router R2

```
(config)# router rip
(config-router)# network 20.0.0.0
(config-router)# network 30.0.0.0
(config-router)# exit
```

In Router R3

```
(config)# router rip
(config-router)# network 30.0.0.0
(config-router)# network 40.0.0.0
(config-router)# exit
```

Observation / Result

→ Show ip route

C 10.0.0.0/8 is directly connected, FastEthernet 2/0
C 20.0.0.0/8 is directly connected, Serial 1/0
R 40.0.0.0/8 [120/2] via 20.0.0.2, 00:00:02, Serial 1/0
R 30.0.0.0/8 [120/1] via 20.0.0.2, 00:00:02 Serial 1/0

Result

→ Ping from 10.0.0.10 to 40.0.0.10

Ping 40.0.0.10

64 bytes from 40.0.0.10 Seq = 0 ttl = 61 time = 72.153 ms

64 bytes from 40.0.0.10 Seq = 1 ttl = 61 time = 38.357 ms

64 bytes from 40.0.0.10 Seq = 2 ttl = 61 time = 58.836 ms

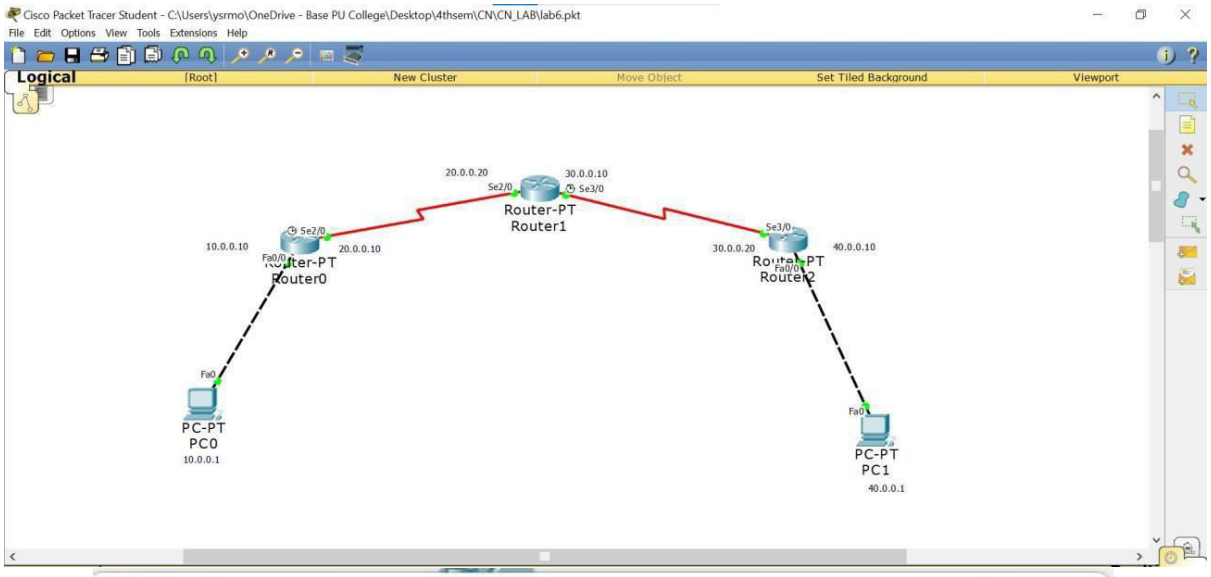
64 bytes from 40.0.0.10 Seq = 3 ttl = 61 time = 63.856 ms

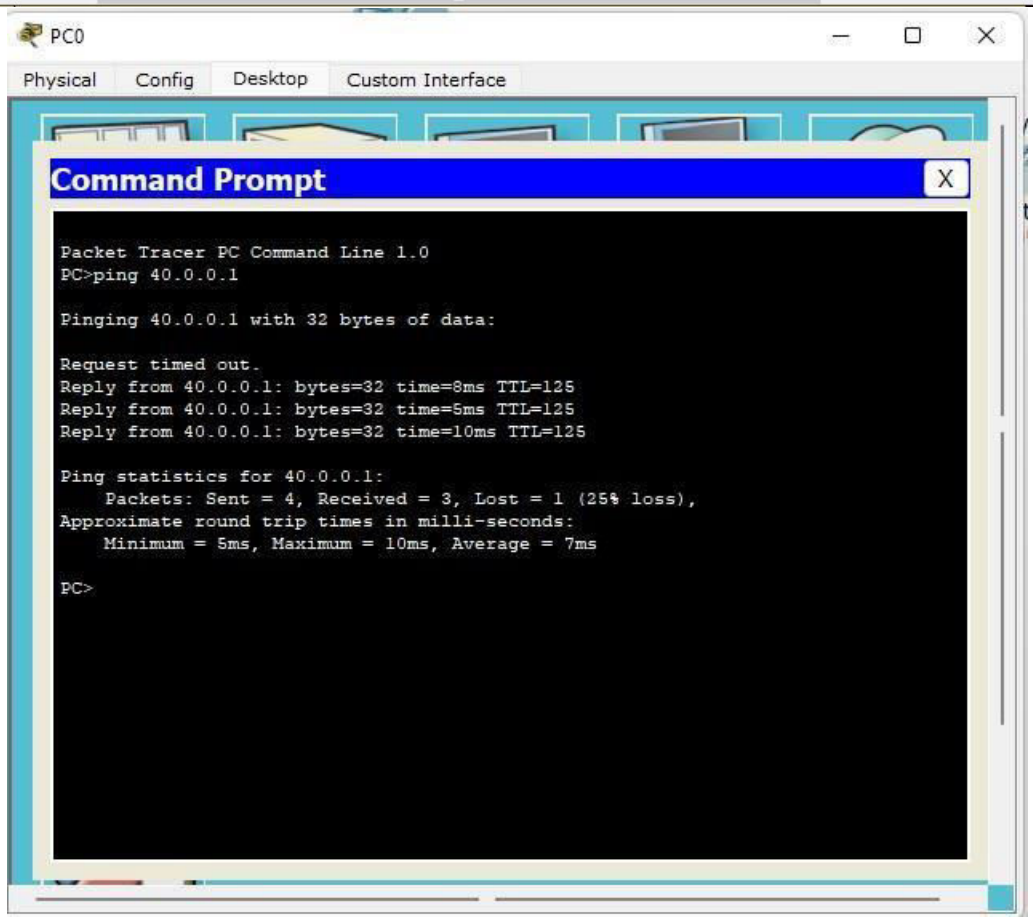
64 bytes from 40.0.0.10 Seq = 4 ttl = 61 time = 120.291 ms

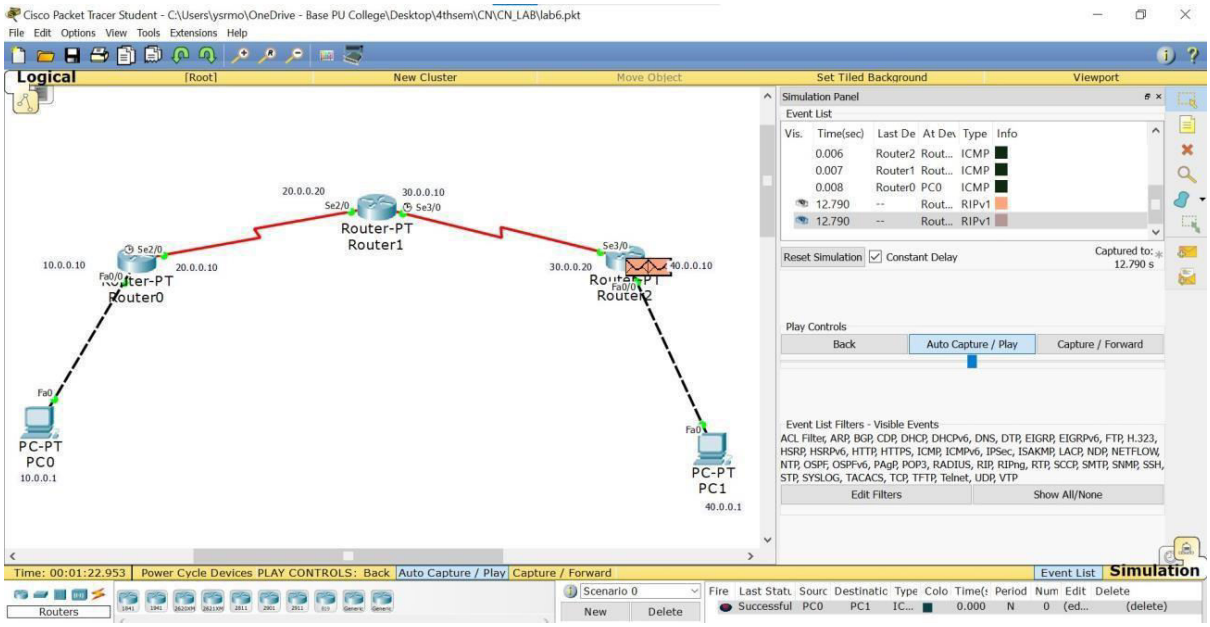
64 bytes from 40.0.0.10 Seq = 5 ttl = 61 time = 61.582 ms

64 bytes from 40.0.0.10 Seq = 6 ttl = 61 time = 100.164 ms

SCREENSHOTS






Cisco Packet Tracer Student - C:\Users\ysrmo\OneDrive - Base PU College\Desktop\4thsem\CN\CN_LAB\lab6.pkt
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Router-PT
Router1
Router0
Router2
20.0.0.20
30.0.0.10
Se2/0
Se3/0
10.0.0.10
20.0.0.10
30.0.0.20
40.0.0.10
Fa0/0
Fa0/1
Fa0
PC-PT
PC0
10.0.0.1
PC1
40.0.0.1
Simulation Panel
Event List
Vis. Time(sec) Last De At De Type Info
0.006 Router2 Rout... ICMP
0.007 Router1 Rout... ICMP
0.008 Router0 PC0 ICMP
12.790 -- Rout... RIPv1
12.790 -- Rout... RIPv1
Reset Simulation
Constant Delay
Captured to: 12.790 s
Play Controls
Back
Auto Capture / Play
Capture / Forward
Event List Filters - Visible Events
ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP
Edit Filters
Show All/None
Time: 00:01:22.953
Power Cycle Devices PLAY CONTROLS: Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Routers
Scenario 0
New
Delete
Fire Last Statu Sourc Destinatic Type Colo Time(s Period Num Edit Delete
Successful PC0 PC1 IC... 0.000 N 0 (ed... (delete)