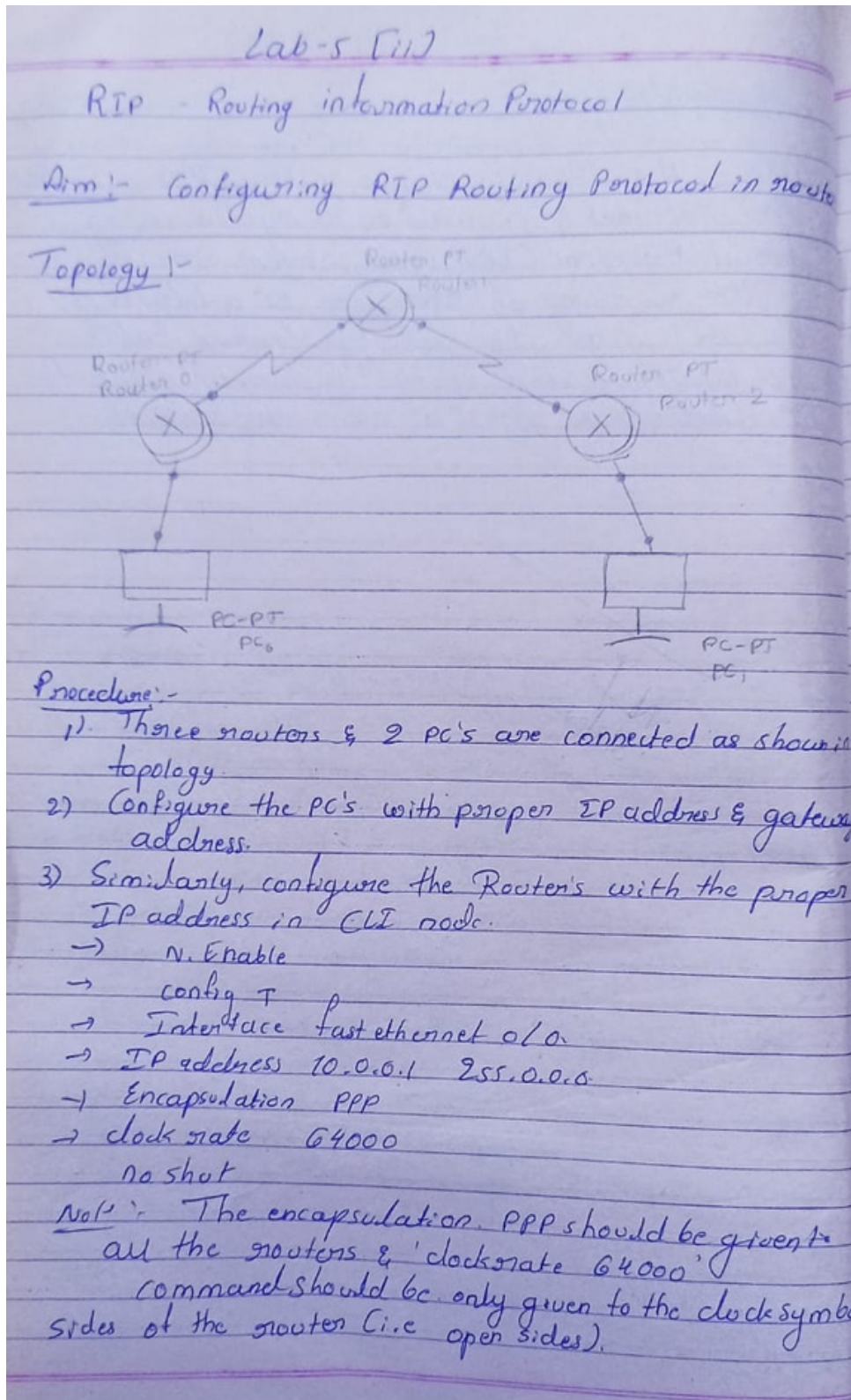


## WEEK 6

Configure RIP routing Protocol in

Routers. OBSERVATION:



→ For making the routers to know about the others devices, in the previous 2 experiments we used static & the other with dynamic address but here we use a Routing Protocol Algorithm that itself makes the routers to know other devices

→ router 21p

→ network 20.0.0.0 } router 2

→ network 30.0.0.0

→ router 21p

→ network 30.0.0.0 } router 3

→ network 40.0.0.0

→ router 21p

→ network 10.0.0.0 } router 1

→ network 20.0.0.0

### Ping output

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:0ms TTL:128

Reply from 40.0.0.1 : bytes=32 time:0ms TTL:128

Reply from 40.0.0.1 : bytes=32 time:0ms TTL:128

Reply from 40.0.0.1 : bytes=32 time:0ms TTL:128

Ping statistics from 40.0.0.1

Packets sent=4 Received 4 Lost=0 (0% Loss)

Approximate round trip times in ms

minimum=0ms, maximum:0ms Average=0ms



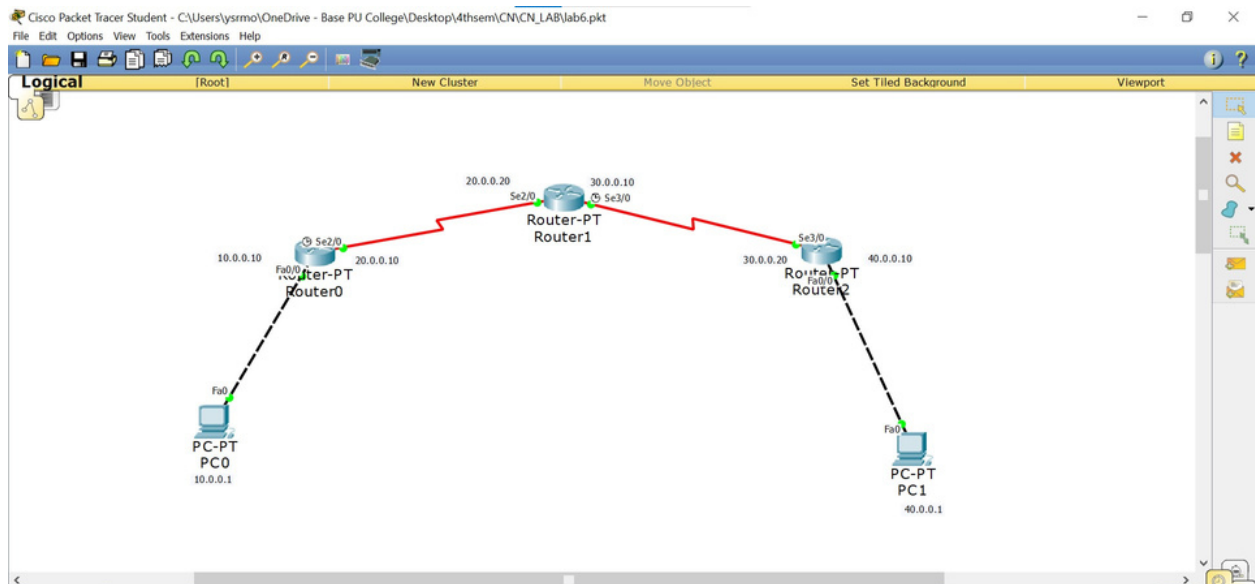
## Observation:

RIP is the Routing Information Protocol. It is a distance vector protocol that uses hop count as its primary metric. RIP defines how routers should share information when moving traffic among an interconnected group of local area networks.

→ The RIP protocol here, used to connect the routers to one other & PC's using RIP protocol & message is pinged successfully.

21/8/2023

## TOPOLOGY:



## OUTPUT:

```
PC0
Physical Config Desktop Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.1: bytes=32 time=8ms TTL=125
Reply from 40.0.0.1: bytes=32 time=5ms TTL=125
Reply from 40.0.0.1: bytes=32 time=10ms TTL=125

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 10ms, Average = 7ms

PC>
```

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 Router0: 10.0.0.10 (Fa0/0), 20.0.0.10 (Se2/0), 20.0.0.20 (Se2/0), 30.0.0.10 (Se3/0)

Router-PT Router1: 20.0.0.20 (Se2/0), 30.0.0.10 (Se3/0)

Router-PT Router2: 30.0.0.20 (Se3/0), 40.0.0.10 (Fa0/0)

PC-PT PC0: 10.0.0.1 (Fa0)

PC-PT PC1: 40.0.0.1 (Fa0)

Simulation Panel

Event List

Vis.	Time(sec)	Last De	At Dev	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, CD, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NBP, NETFLOW, NTP, OSPF, OSPFv6, PAg, POP3, RADIUS, RIP, RIPng, RTT, SCC, SMT, 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

Scenario 0

New Delete

Fire Last Stat: Sourc Destinatic Type Colo Time(s) Period Num Edit Delete

Successful PC0 PC1 IC... 0.000 N 0 (ed... (delete)