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EXERCISE 1A

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static routing configuration

Aim:

To simulate static routing configuration using cisco packet trace.

Procedure:

(1) Arrange PC & Router in the manner as the image below

2) Assign IP address for router and PCs

Router 0 [2811]

→ IP FA0/0 - 192.168.1.2

FA0/1 - 192.168.2.3

Router 1 2811

→ IP FA0/0 - 192.168.1.4

FA0/1 - 192.168.3.3

PC0

IP - 192.168.2.7

gateway 192.168.2.3

PC1

IP - 192.168.2.3

gateway - 192.168.2.3

PC2

IP - 192.168.3.5

gateway 192.168.3.3

PC3

IP - 192.168.3.7

gateway - 192.168.3.3

3. Now click on route 0

then config → static

Network - 192.168.3.0

subnet - 255.255.255.0

neithop 192.168.1.4

4. Now click on Router 1

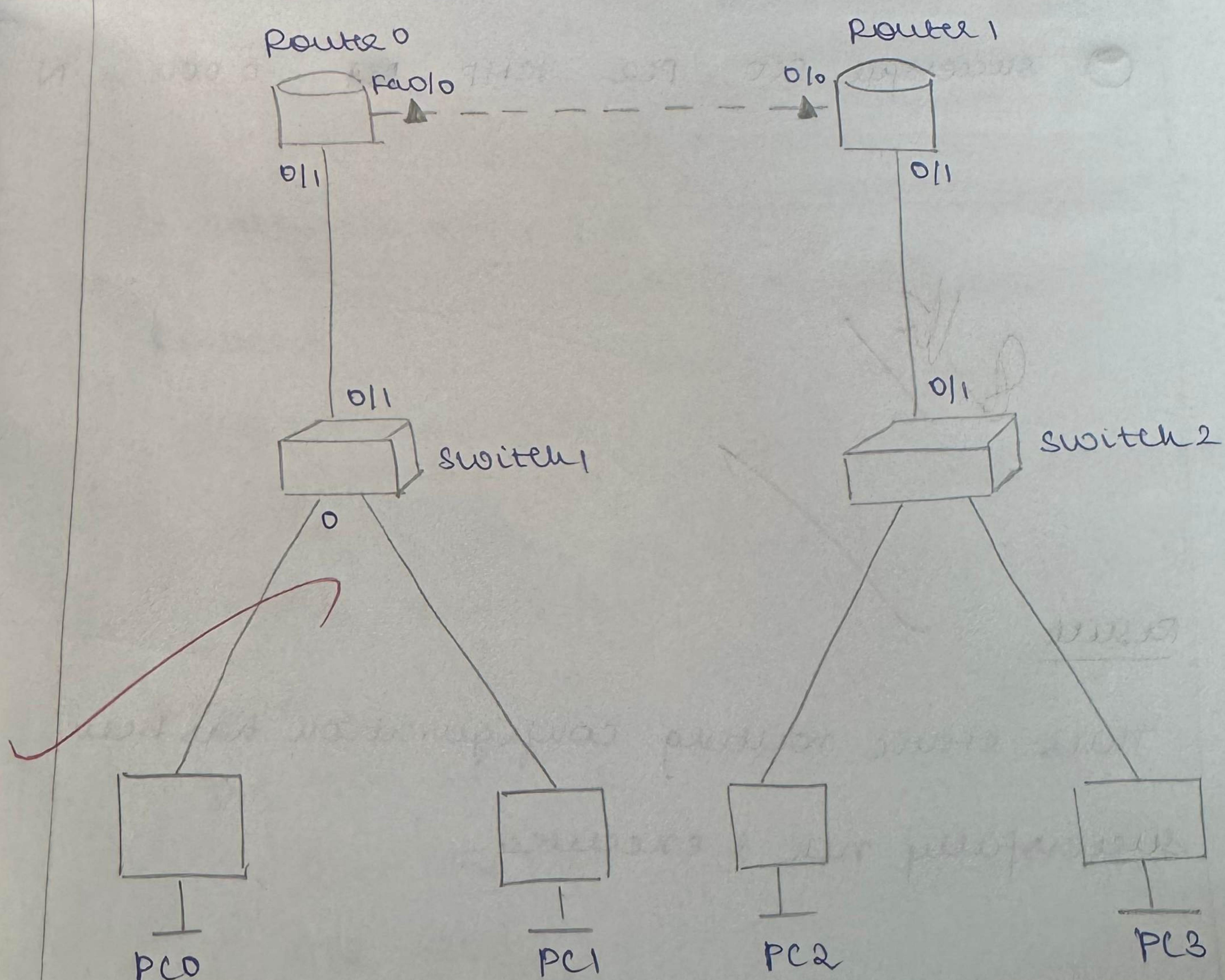
then config → static

Network - 192.168.2.0

subnet - 255.255.255.0

neithop - 192.168.1.2

Diagram:



Output:

Ping from PC0 to PC2

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Vis	Time(sec)	Last Device
	0.000	--
	0.001	PC0
	0.002	switch 0
	0.003	Router 0
	0.004	Router 1
	0.005	switch 1
	0.006	PC2
	0.007	switch 1
	0.008	Router 1
	0.009	Router 0
	0.010	switch 0

Fire Status source Dest type code Type(sec) period

○	successful	PC0	PC2	ICMP	█	0.000	N
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Result:

Thus static routing configuration has been successfully run & executed.

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EXERCISE 11b

RIP



Aim:

To simulate RIP using CISCO Packet Tracer.

Procedure:

- 1) Create network as using 3 PCs & 4 routers as shown in image.
- 2) Assign IP address for the PCs & router ports

PC0

IP - 10.1.1.1

Gateway : 10.1.1.2

PC1

IP - 200.1.1.1

Gateway 200.1.1.2

PC2

IP - 222.2.2.2

gateway - 222.2.2.12

Router 3

gig 0/0 - 20.1.1.1

0/1 - 192.168.1.1

0/2 - 10.1.1.1

Router 2

gig 0/0 - 20.1.1.2

0/1 - 172.1.1.1

0/2 - 200.1.1.2

Router 1

gig 0/0 - 192.168.1.3

0/1 - 172.1.1.2

0/2 - 217.1.1.1

Router 4

gig 0/0 - 217.1.1.2

0/1 - 222.2.2.12

3. click on router 3

→ click config → RIP

→ Enter Network 10.0.0.0 → Add

→ " " 20.0.0.0 → Add

→ " " 192.168.1.0 → Add

This step is done in order to add the neighbour

network address for router 3

4. Do same for Router 2, 1, 2, 4

Router 2 → config → RIP

→ 20.0.0.0 - add

→ 172.1.0.0 - add

→ 200.1.1.0 - add

Router 1 → config → RIP

→ 172.1.0.0 - add

→ 192.168.1.0 - add

→ 217.1.1.0 - add

Router 4 → config → RIP

→ 217.1.1.0 - add

→ 222.2.2.0 - add

5. Now to display the routing table click on router (say router 1)

→ then on CLI & type the command

exit

exit

show ip route

Output:

R - 10.0.0.0/8 via 192.168.1.1 gig 0/0

R - 20.0.0.0/8 via 192.168.1.1 gig 0/0

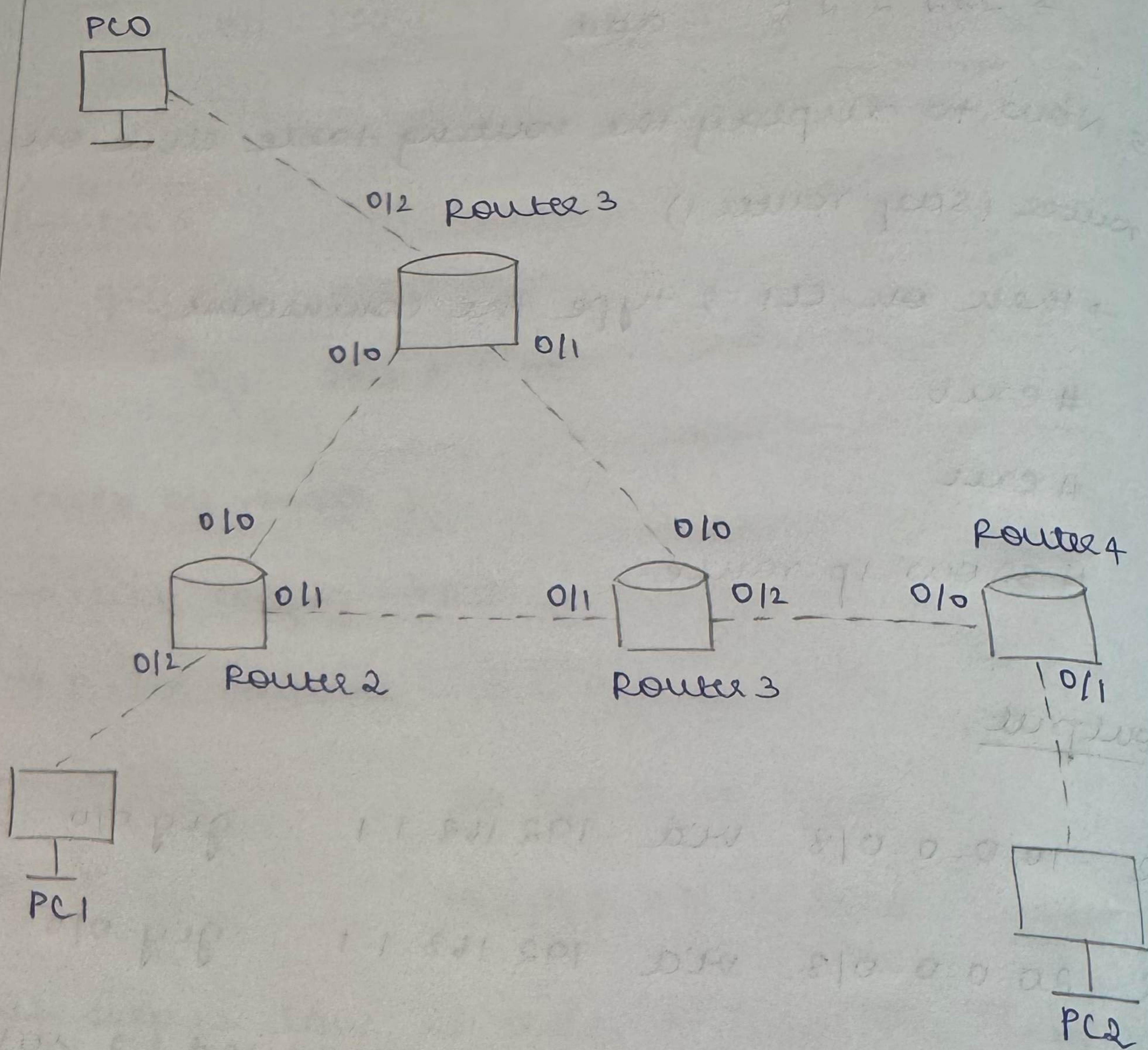
172.1.0.0/16 is variable connected, 2 subnet
2 mask

C - 172.1.0.0/16 is directly connected gig 0/1

L - 172.1.1.2/32 is directly connected gig 0/1

Diagrammatic Representation

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Ques

Result:

Thus RIP is simulated using Cisco packet trace successfully.