

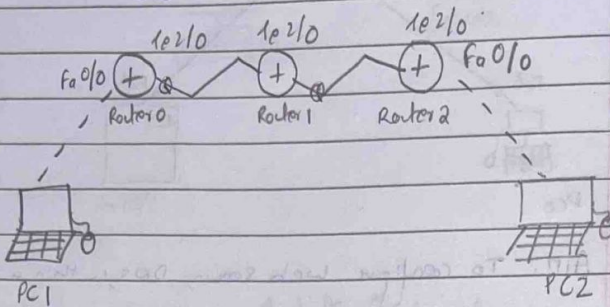
## EXPERIMENT-6

### Q) Configure RIP routing Protocol in Routers

#### LAB-6: Configure RIP routing protocol in Routers

\* Aim: To Configure RIP routing protocol in Routers

\* Create topology:-



\* Steps:-

- ① Create topology as shown in the figure
- ② Set the IP addresses for 2 PC's and three routers
- ③ Configure all the PC's and routers with each other using commands:-

# interface serial

# ip address

# encapsulation PPP

# clock rate 64000

for all respectively (routers 0, 1, 2)

- ④ Now # Router 0

# network 10.0.0.10

# network 10.0.0.20

for all three routers respectively (1 and 2)

- ⑤ Now ping the PC's it is all connected to

## \* Output:

Pc> ping 10.0.0.10  
Pinging 10.0.0.10 with 32 byte of data:  
Reply from 10.0.0.10: bytes=32 time=4ms TTL=125  
Reply from 10.0.0.10: bytes=32 time=4ms TTL=125  
Reply from 10.0.0.10: bytes=32 time=4ms TTL=125  
Reply from 10.0.0.10: bytes=32 time=4ms TTL=125

Ping Statistics for 10.0.0.10:

Packets: sent=4, Received=4, lost=0 (0% loss)

Approximate round trip times in millisecond:

Minimum=4ms, Maximum=7ms, Average=4ms

## \* Commands:

### ① Configure Router (plan ip)

Router>enable  
Router# config t  
# interface fast ethernet 0/0  
# ip address 10.0.0.3 255.0.0.0  
# no shut  
# ip interface serial 2/0  
# ip address 20.0.0.1 255.0.0.0  
# no shut

9/10  
25/11/23

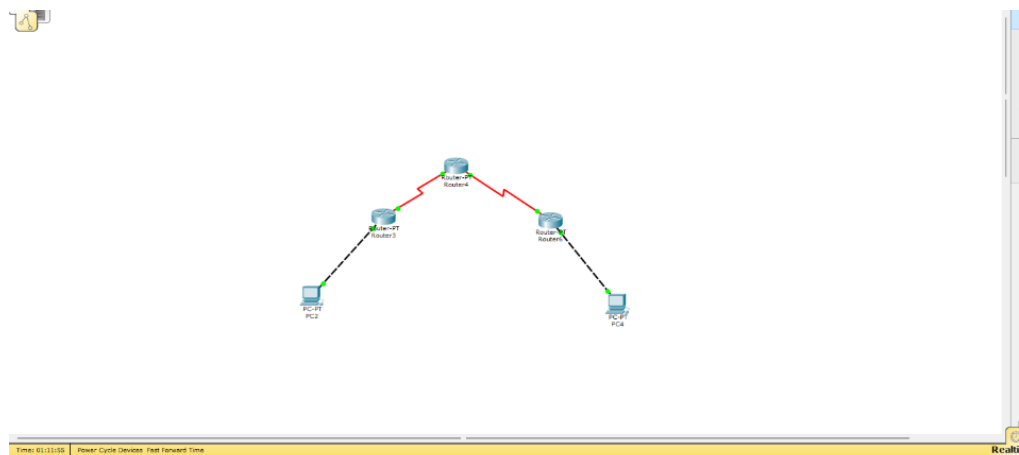
### ② encapsulation :

# interface serial 2/0  
# encapsulation PPP  
# clock rate 64000  
# no shut

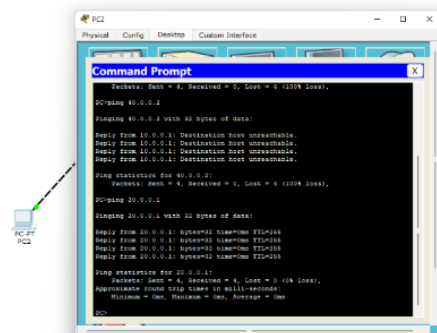
### ③ Router rip

# router rip  
# network 10.0.0.0  
# network 20.0.0.0

# TOPOLOGY & OUTPUT



[Row]	New Cluster	Power Output	Set Time Background
-------	-------------	--------------	---------------------



Power Cycle Devices	Test Forward Time
<div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> </div>	<div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> </div>