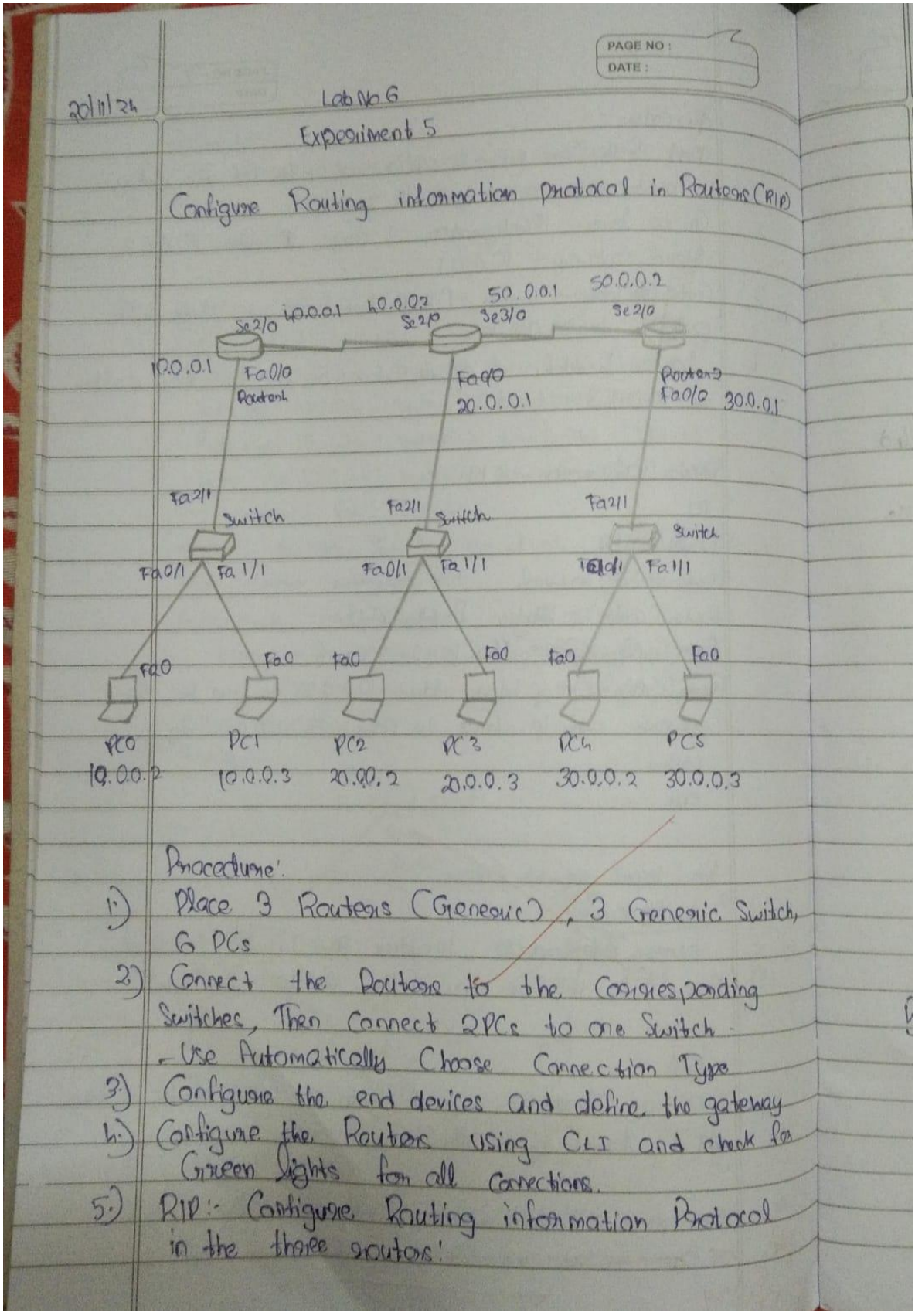
LABORATORY PROGRAM – 5

Configure RIP routing Protocol in Routers



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In Router 0:

```
Router > enable
Router # config terminal
Router (config) # router rip
Router (config) #
Router (config-router) # network 10.0.0.0
Router (config-router) # network 40.0.0.0
```

In Router 1:

```
Router > enable
Router # config terminal
Router (config) # router rip
Router (config-router) # network 40.0.0.0
Router (config-router) # network 50.0.0.0
Router (config-router) # network 20.0.0.0
```

In Router 2:

```
Router > enable
Router # config terminal
Router (config) # router rip
Router (config-router) # network 50.0.0.0
Router (config-router) # network 30.0.0.0
```

Observations:

1) Before Routing information Protocol:

In Router 2:

```
Router # show ip route
C   30.0.0.0/8 is directly connected
C   50.0.0.0/8 is directly connected
```

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2.) After Routing information protocol:

In Route 2:

Router # show ip route

R 10.0.0.0/8 via 50.0.0.1

R 20.0.0.0/8 via 50.0.0.1

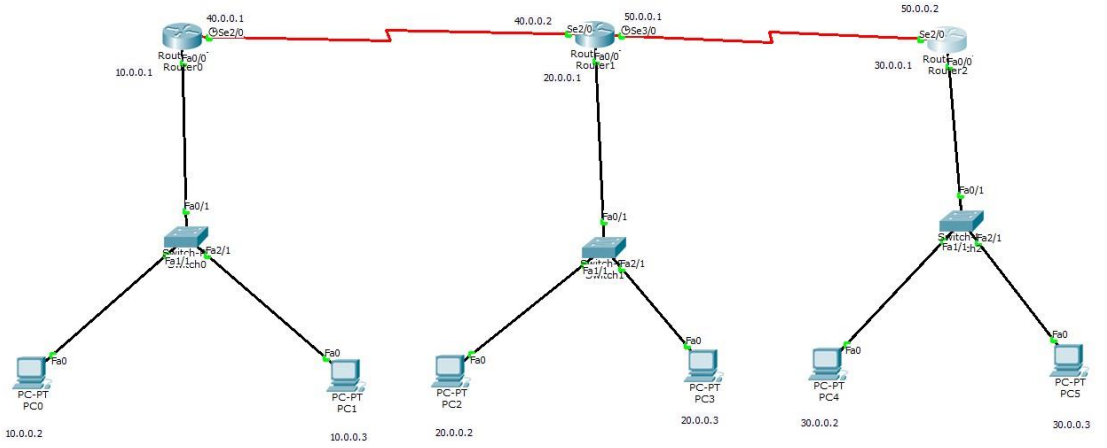
C 30.0.0.0/8 ~~via~~ 50.0 directly Connected

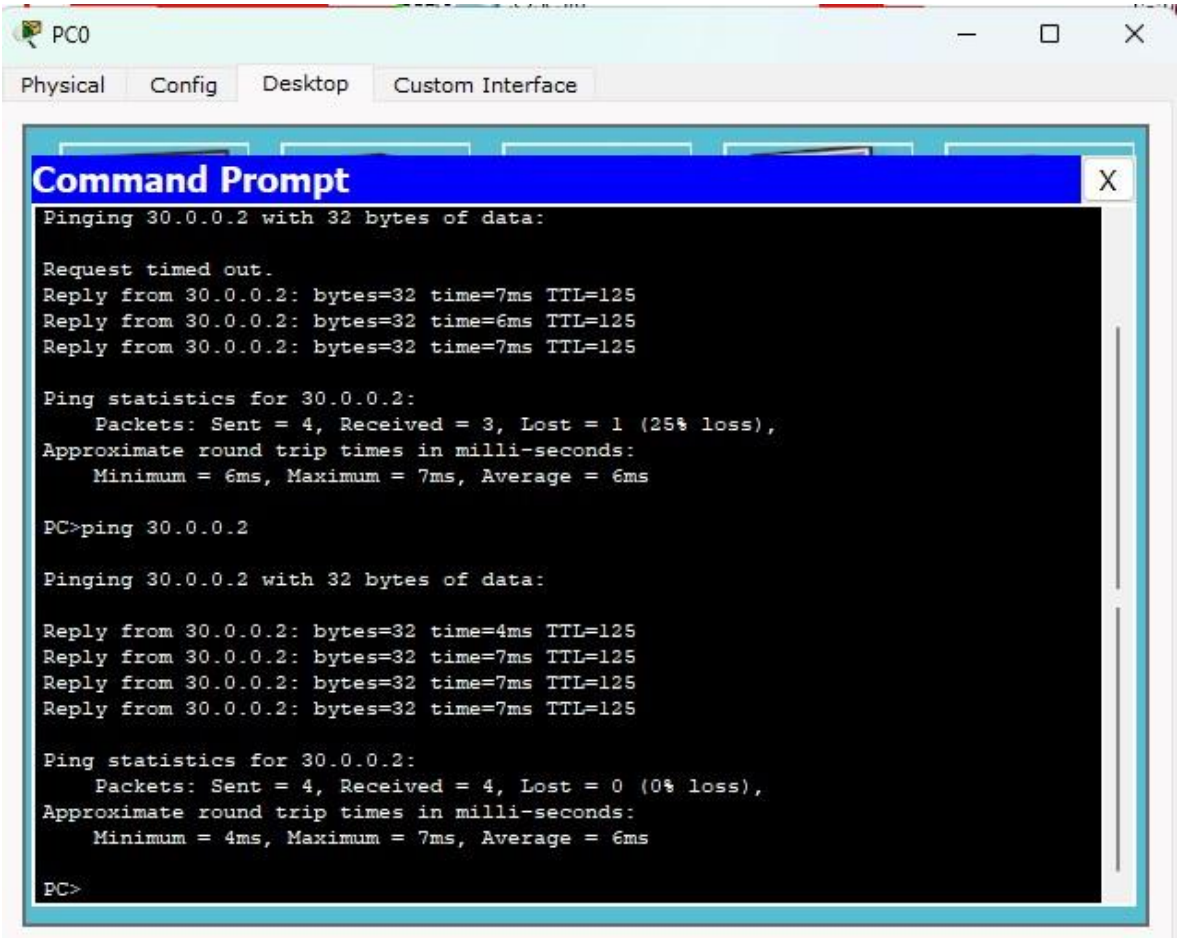
R 40.0.0.0/8 via 50.0.0.1

C 50.0.0.0/8 directly Connected

3.) Before RIP pinging from different network failed.

4.) After RIP, we were successfully able to ping across networks as Connections were established through rip


40.0.0.1
Se2/0
40.0.0.2
Se2/0
50.0.0.1
Se3/0
50.0.0.2
Se2/0
Router0
Router1
Router2
Fa0/0
10.0.0.1
20.0.0.1
30.0.0.1
Fa0/1
Switch0
Switch1
Switch2
Fa1/1
Fa2/1
Fa0
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
10.0.0.2
10.0.0.3
20.0.0.2
20.0.0.3
30.0.0.2
30.0.0.3


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Pinging 30.0.0.2 with 32 bytes of data:
Request timed out.
Reply from 30.0.0.2: bytes=32 time=7ms TTL=125
Reply from 30.0.0.2: bytes=32 time=6ms TTL=125
Reply from 30.0.0.2: bytes=32 time=7ms TTL=125
Ping statistics for 30.0.0.2:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 7ms, Average = 6ms
PC>ping 30.0.0.2
Pinging 30.0.0.2 with 32 bytes of data:
Reply from 30.0.0.2: bytes=32 time=4ms TTL=125
Reply from 30.0.0.2: bytes=32 time=7ms TTL=125
Reply from 30.0.0.2: bytes=32 time=7ms TTL=125
Reply from 30.0.0.2: bytes=32 time=7ms TTL=125
Ping statistics for 30.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 4ms, Maximum = 7ms, Average = 6ms
PC>