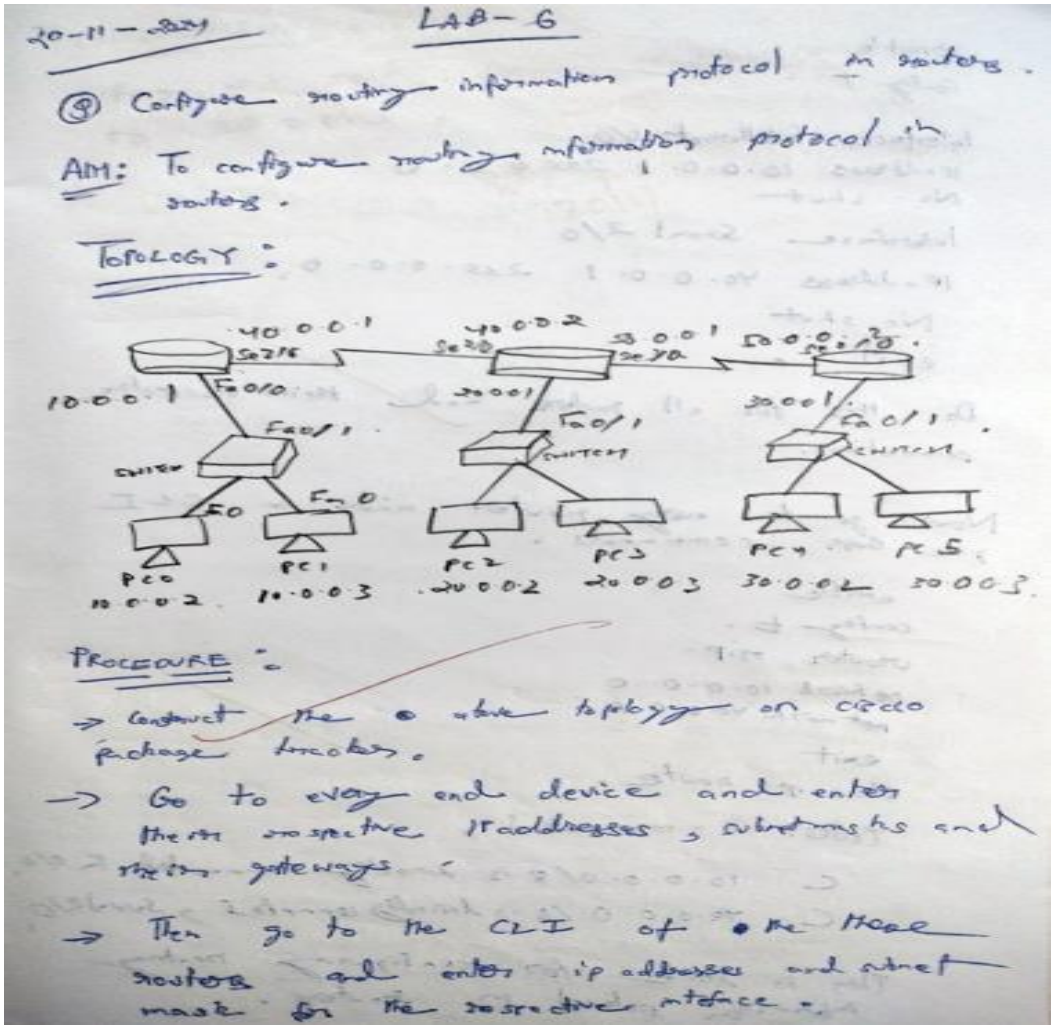
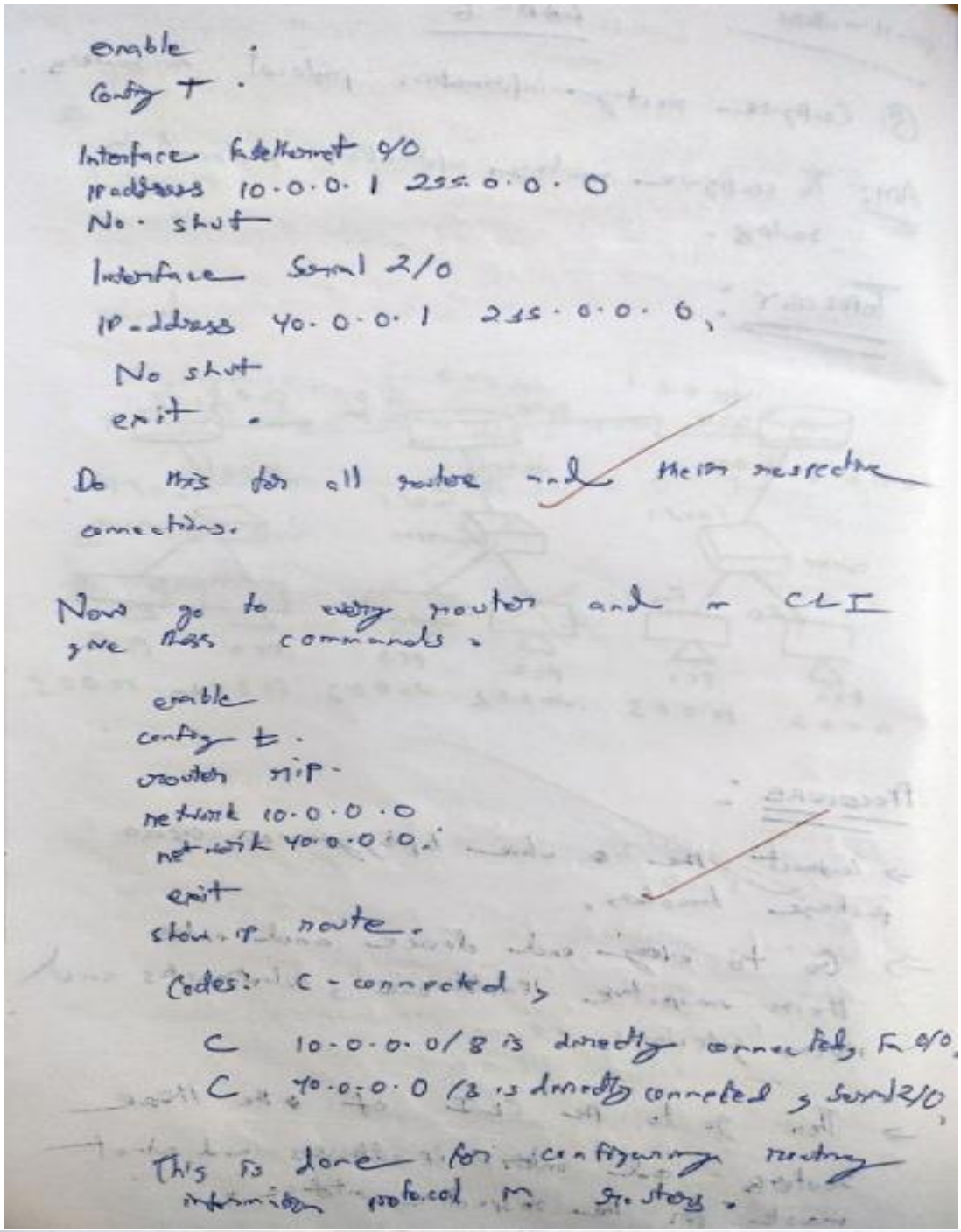
Program 6

Aim: Configure RIP routing Protocol in Routers .

Topology , Procedure and Observation:




enable .
Config t .

Interface fastEthernet 0/0
ip address 10.0.0.1 255.0.0.0
No shut

Interface Serial 2/0
IP address 40.0.0.1 255.0.0.0,
No shut
exit .

Do this for all routers and their respective connections.

Now go to every router and in CLI give these commands.

enable
config t.
router rip.
network 10.0.0.0
network 40.0.0.0.
exit
show ip route.
Codes: C - connected,

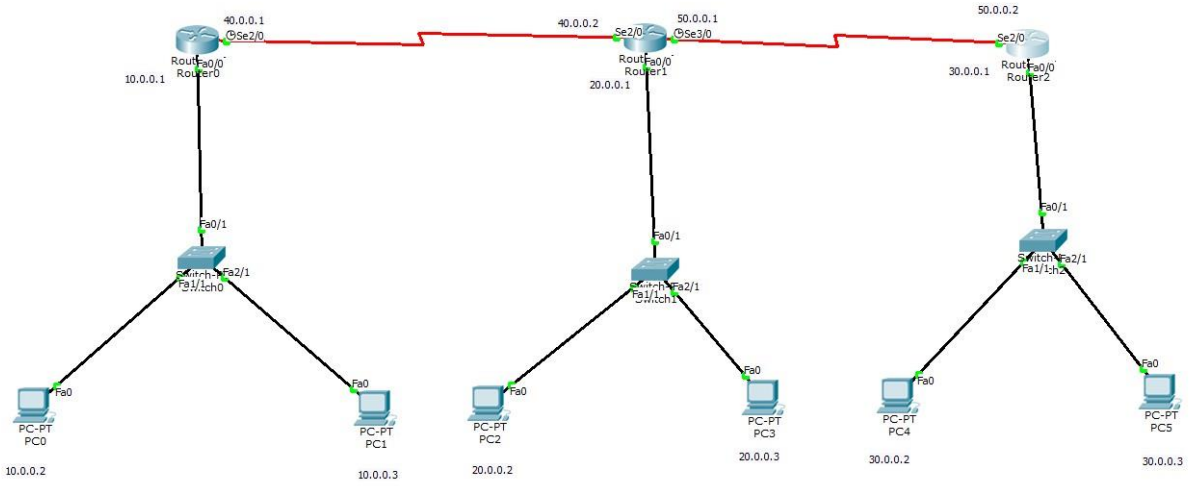
C 10.0.0.0/8 is directly connected, FastEthernet 0/0
C 40.0.0.0/8 is directly connected, Serial2/0

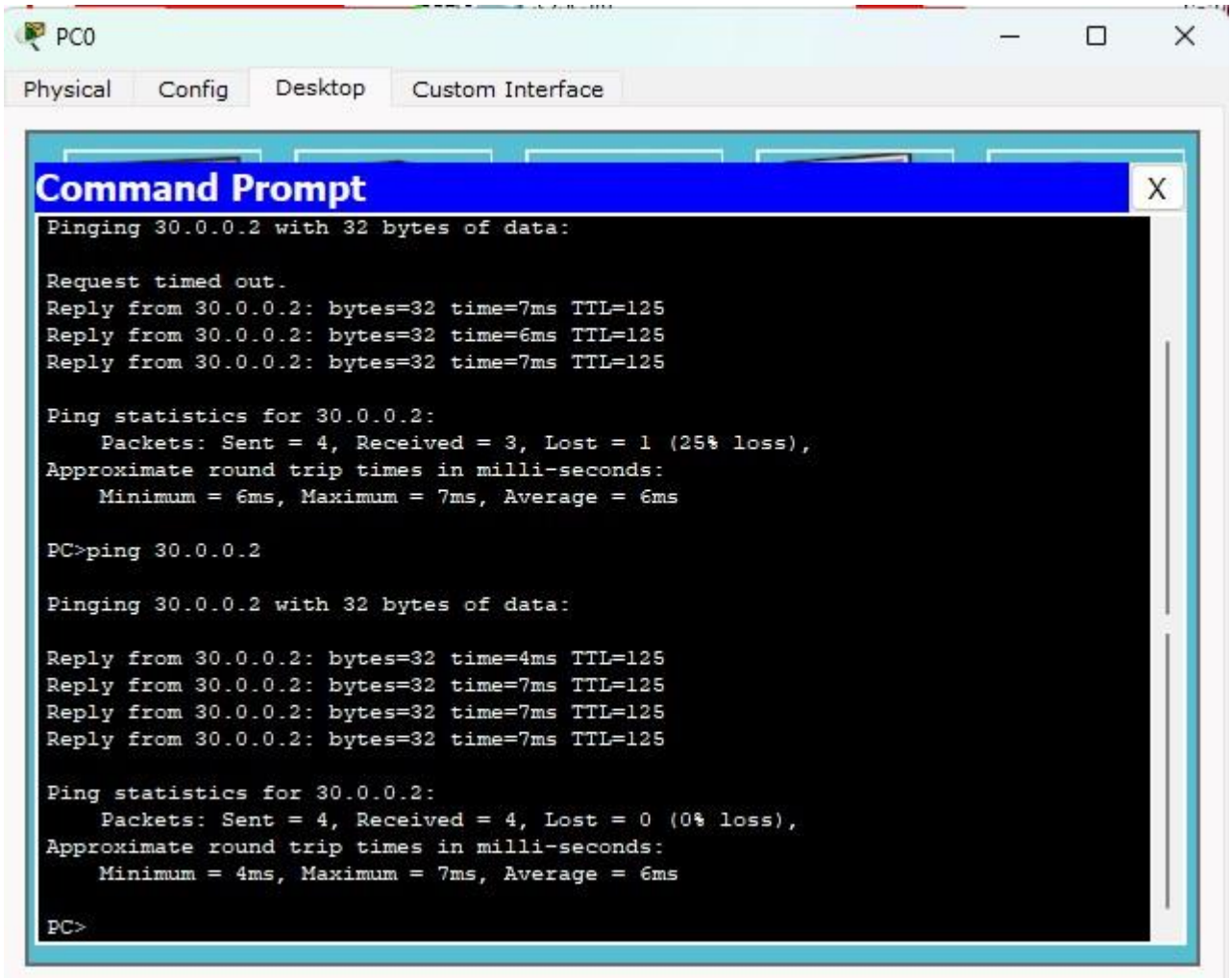
This is done for configuring routing information protocol in routers.

OBSERVATION

ping was sent from IP address 10.0.0.2 to 30.0.0.3 .

Screen Shots:


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
Fa0/0
10.0.0.1
Router1
Fa0/0
20.0.0.1
Router2
Fa0/0
30.0.0.1
Fa0/1
Fa2/1
Fa0/1
Fa2/1
Fa0/1
Fa2/1
Fa0
Fa0
Fa0
Fa0
Fa0
Fa0
PC-PT
PC0
10.0.0.2
PC-PT
PC1
10.0.0.3
PC-PT
PC2
20.0.0.2
PC-PT
PC3
20.0.0.3
PC-PT
PC4
30.0.0.2
PC-PT
PC5
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>