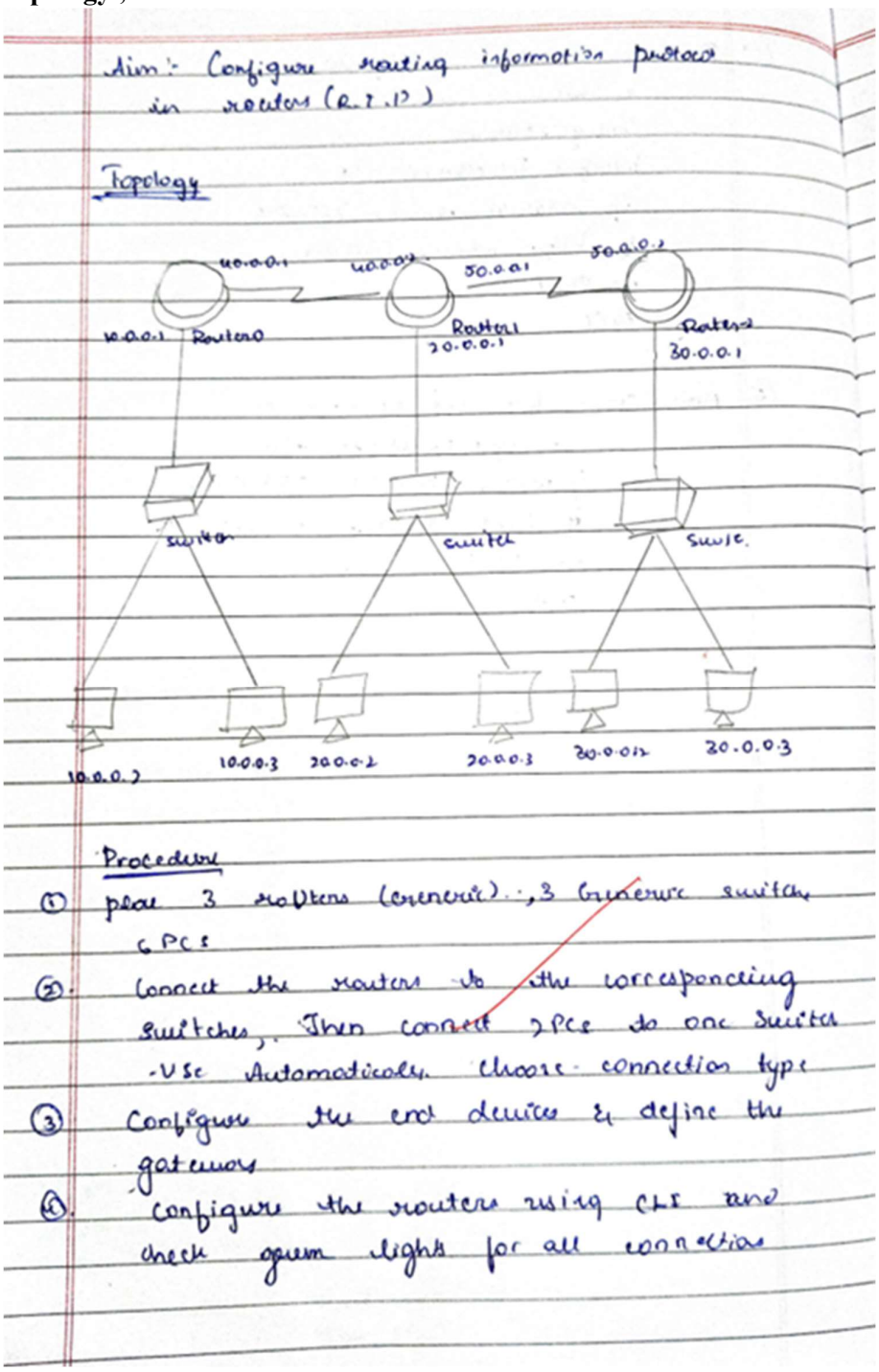
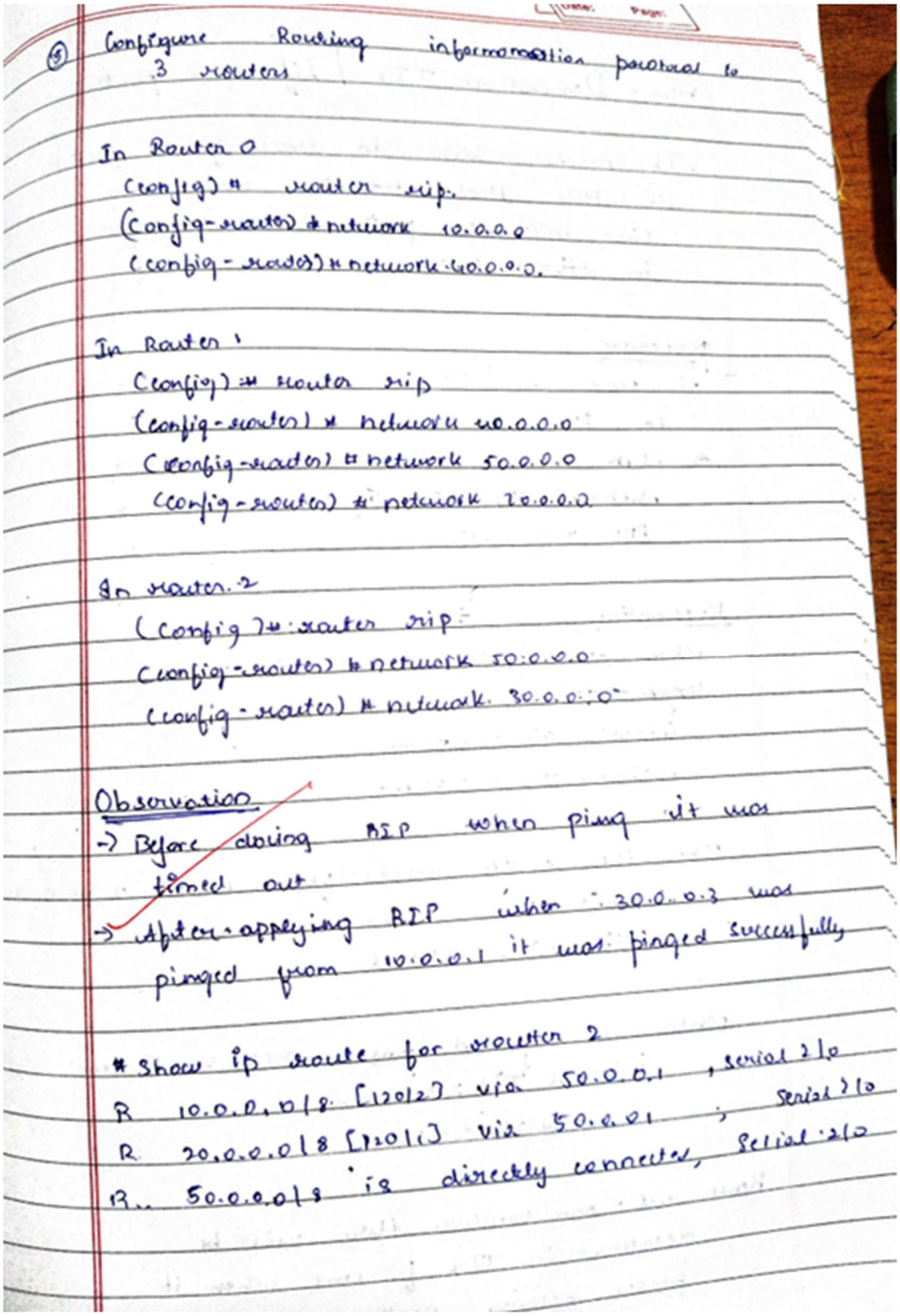
Program 6

Aim: Configure RIP routing Protocol in Routers .

Topology , Procedure and Observation:





⑤ Configure Routing information protocol to 3 routers

In Router 0
(config) # router rip.
(config-router) # network 10.0.0.0
(config-router) # network 40.0.0.0.

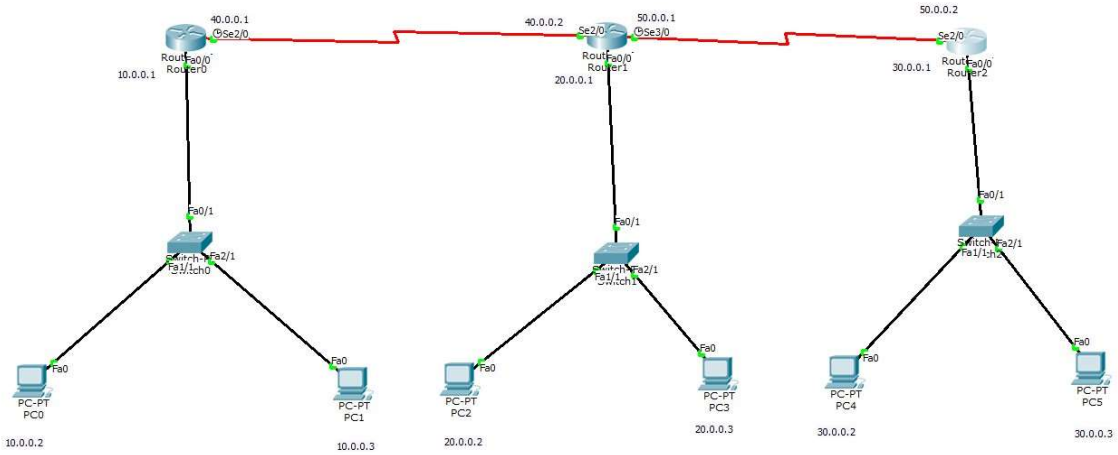
In Router 1
(config) # router rip
(config-router) # network 10.0.0.0
(config-router) # network 50.0.0.0
(config-router) # network 20.0.0.0

In router 2
(config) # router rip
(config-router) # network 30.0.0.0
(config-router) # network 30.0.0.0

Observation
-> Before doing RIP when ping it was timed out
-> After applying RIP when 30.0.0.3 was pinged from 10.0.0.1 it was pinged successfully

Show ip route for router 2
R 10.0.0.0/8 [120/2] via 50.0.0.1, Serial 2/0
R 20.0.0.0/8 [120/1] via 50.0.0.1, Serial 2/0
R 50.0.0.0/8 is directly connected, Serial 2/0

Screen Shots:



PC0

Physical | Config | Desktop | Custom Interface

Command Prompt

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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>
```