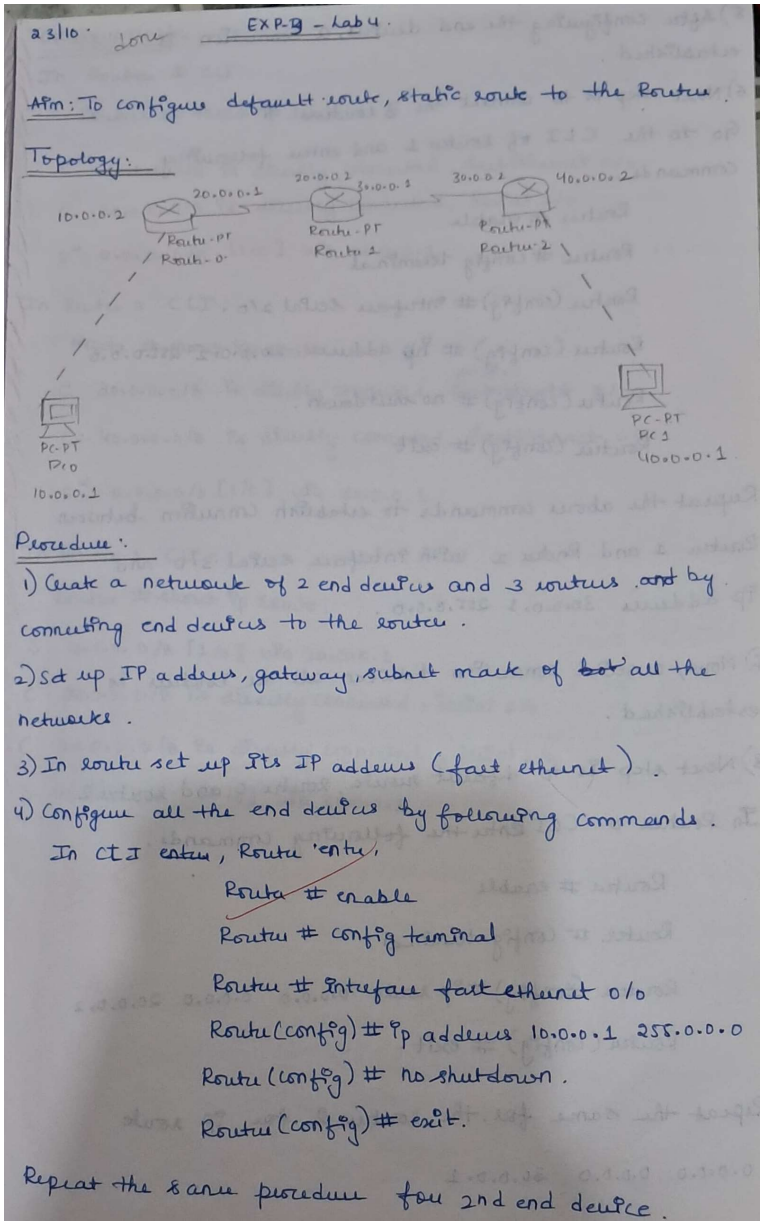
Program-4

Configure default route, static route to the Router (part 2)

Topology, Procedure and Observation:



) After configuring the end devices, a conn
established.

) Next step is to connect the 3 routers. To
Go to the CLI of router 1 and enter following
commands.

```
Router # enable
Router # config terminal
Router (config) # interface serial 2/0
Router (config) # ip address 20.0.0.2 255.0.0.0
Router (config) # no shutdown
Router (config) # exit
```

Repeat the above commands to establish connection between
Router 1 and Router 2 with interface serial 3/0 and
ip address 30.0.0.1 255.0.0.0.

) Now, a serial connection between all the routers is
established.

) Next step is to default route, router 0 and router 2.
In Router 0 CLI enter the following commands.

```
Router # enable
Router # config terminal
Router (config) # ip route 0.0.0.0 0.0.0.0 20.0.0.2
Router (config) # exit.
```

Repeat the same for the router 2 for ip route
0.0.0.0 0.0.0.0 30.0.0.1

OBSERVATION:

In Router 0 CLI:

Router # show ip route

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

C 20.0.0.0/8 is directly connected, Serial 2/0

S* 0.0.0.0/0 [1/0] via 20.0.0.2

In Router 2 CLI:

Router # show ip route

C 30.0.0.0/8 is directly connected, ~~FastEthernet~~ Serial 3/0

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

S* 0.0.0.0/0 [1/0] via 30.0.0.1

In Router 1 CLI:

Router # show ip route

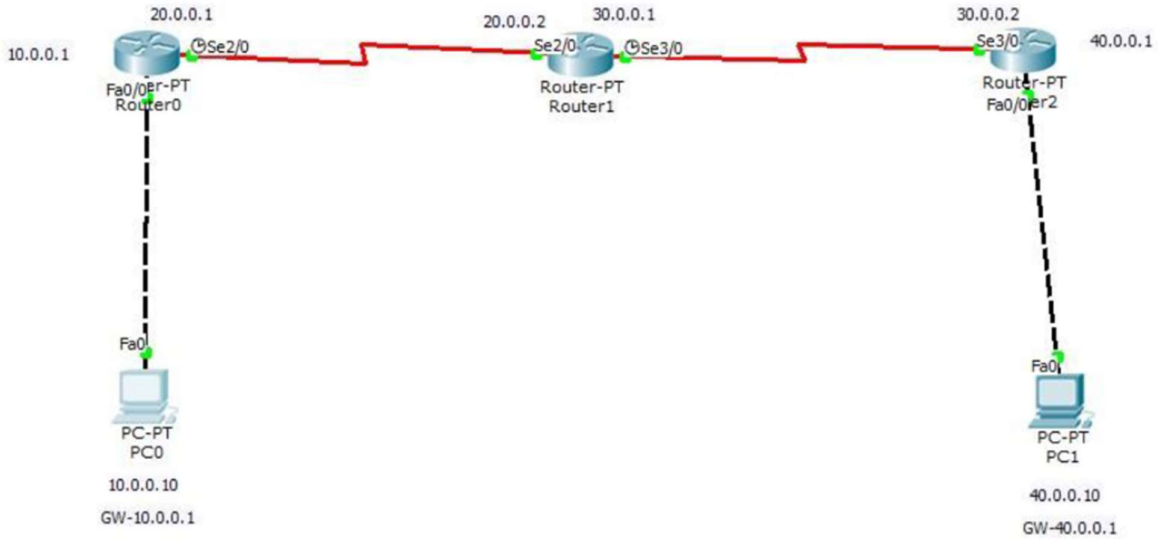
S 10.0.0.0/8 [1/0] via 20.0.0.1

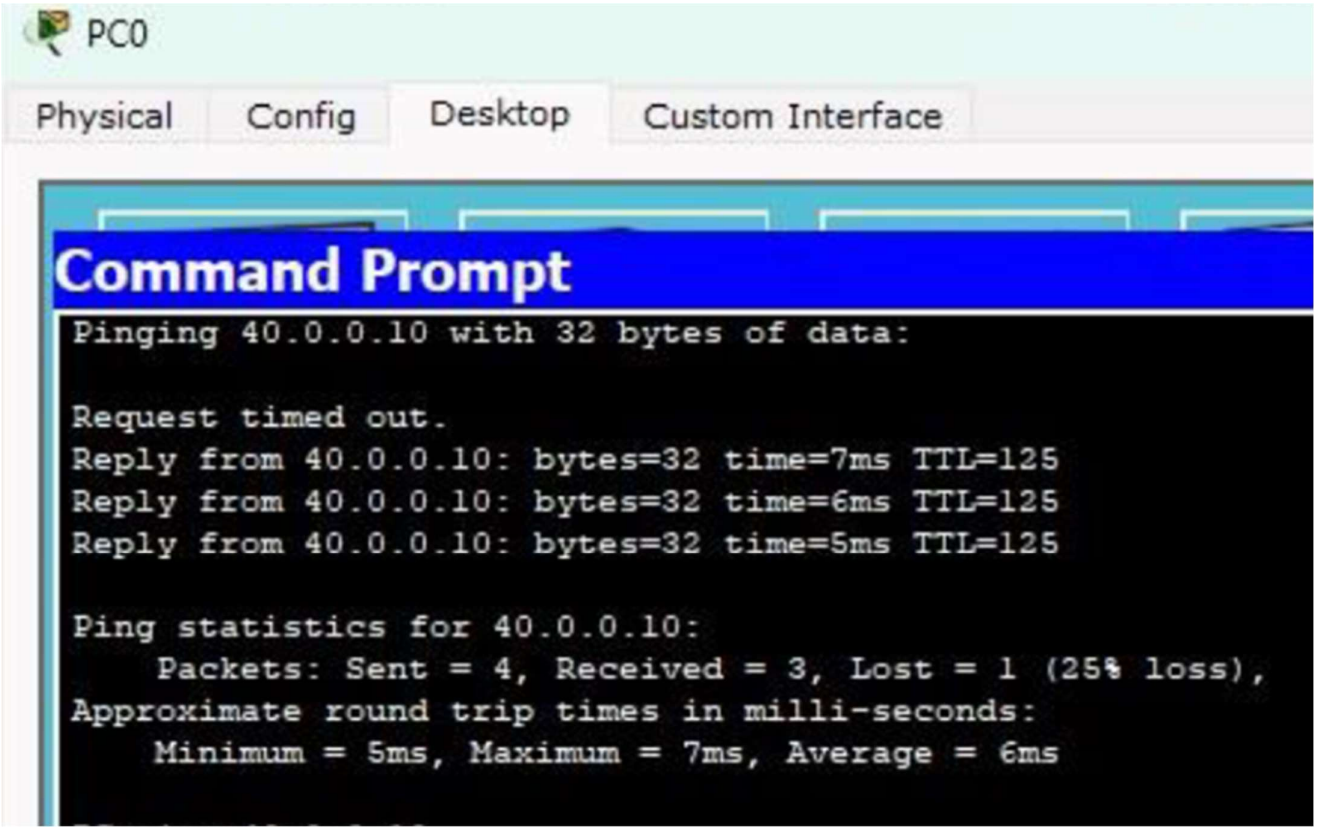
C 20.0.0.0/8 is directly connected, Serial 2/0

C 30.0.0.0/8 is directly connected, Serial 3/0

S 40.0.0.0/8 [1/0] via 30.0.0.2

Screenshots:




PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
Pinging 40.0.0.10 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.10: bytes=32 time=7ms TTL=125
Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
Reply from 40.0.0.10: bytes=32 time=5ms TTL=125
Ping statistics for 40.0.0.10:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 5ms, Maximum = 7ms, Average = 6ms