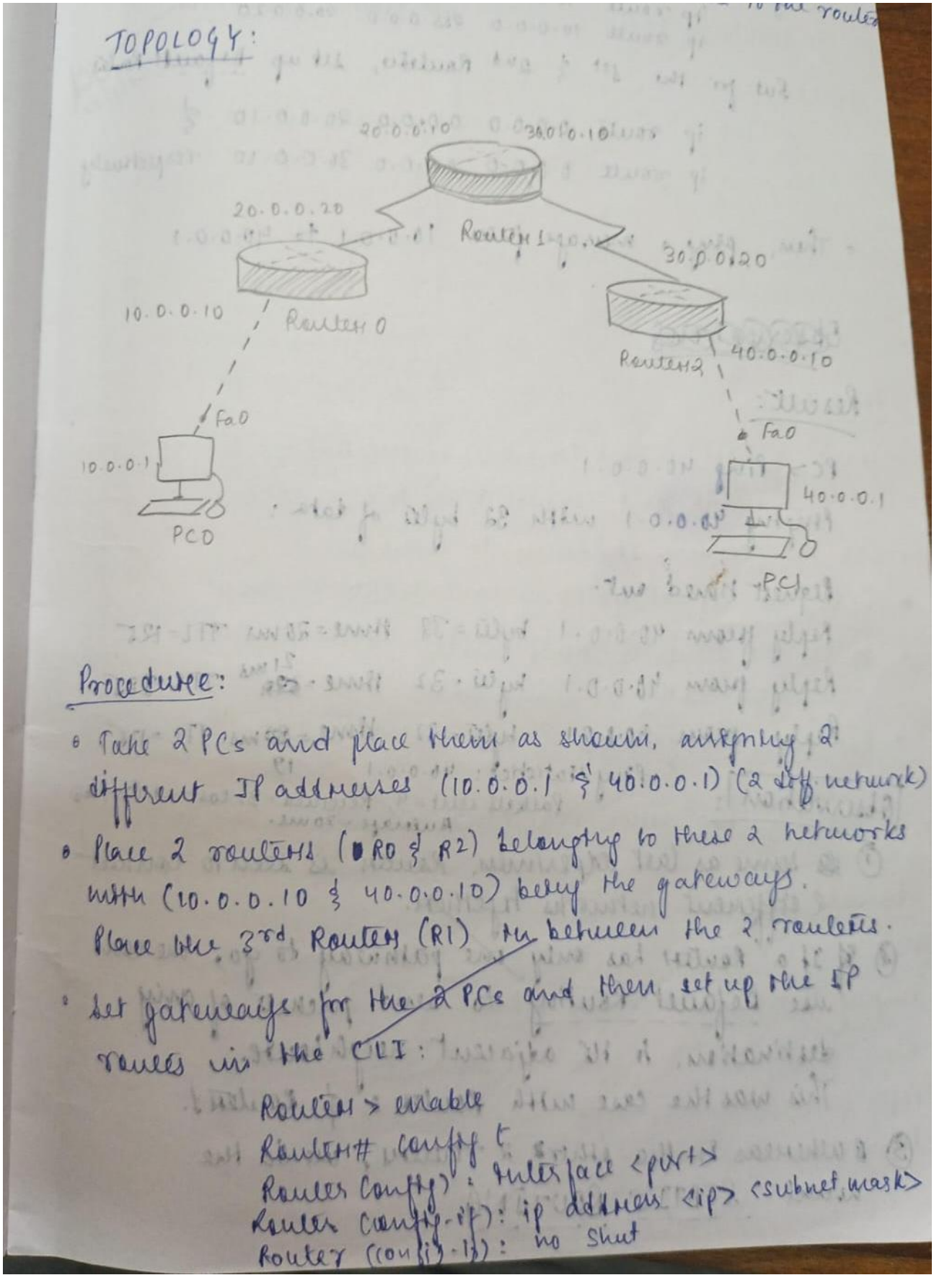
Experiment 3

AIM: Configure default route, static route to the Router



Procedure:

- Take 2 PCs and place them as shown, assigning 2 different IP addresses (10.0.0.1 & 40.0.0.1) (2 diff network)
- Place 2 routers (R0 & R2) belonging to these 2 networks with (10.0.0.10 & 40.0.0.10) being the gateways. Place the 3rd Router (R1) in between the 2 routers.
- Set gateways for the 2 PCs and then set up the IP routes in the CLI:

```
Router> enable
Router# config t
Router(config): interface <port>
Router(config-if): ip address <ip> <subnet mask>
Router(config-if): no shut
```

- for the 3rd router, set up Static Route.

~~ip address~~
ip route 40.0.0.0 255.0.0.0 30.0.0.20
ip route 10.0.0.0 255.0.0.0 20.0.0.20

But for the 1st & 2nd Routers, set up Default Route

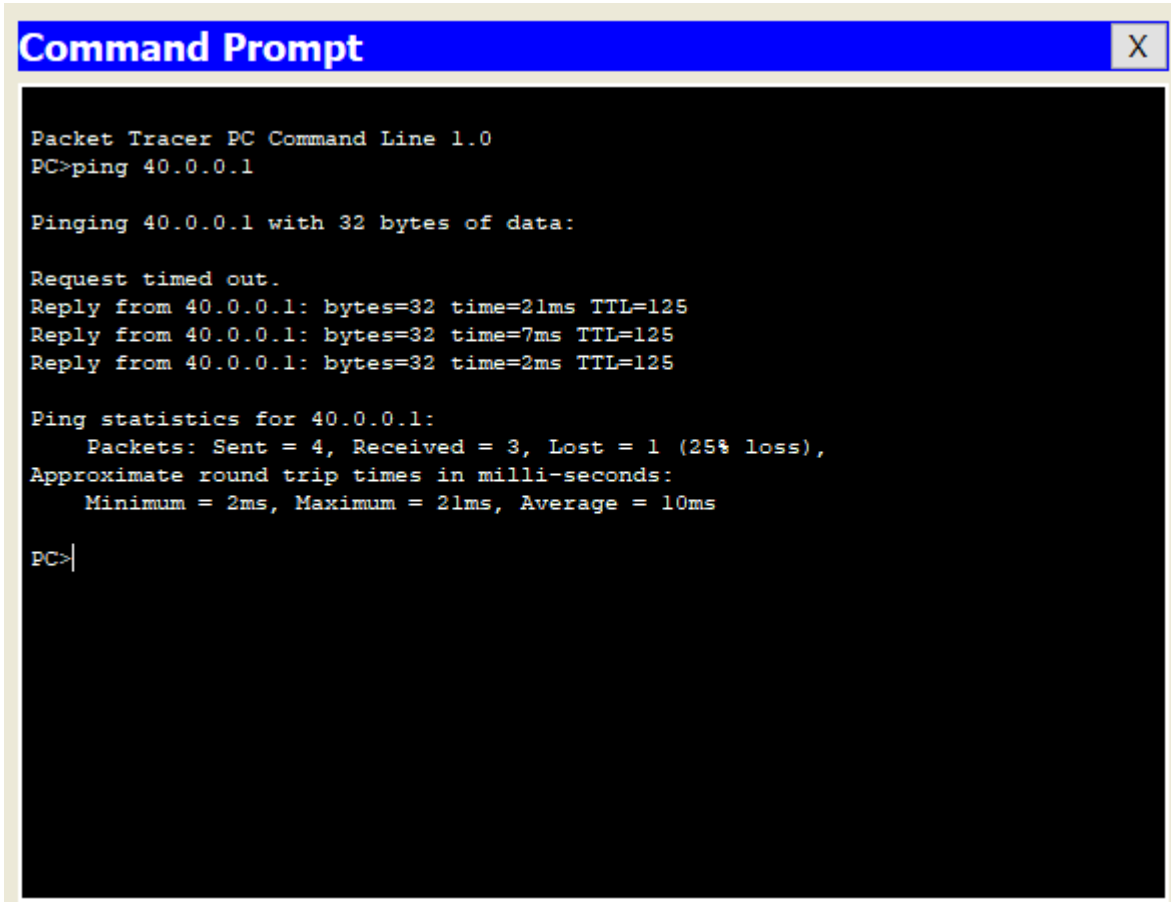
ip route 0.0.0.0 0.0.0.0 20.0.0.10 } respectively
ip route 0.0.0.0 0.0.0.0 30.0.0.10

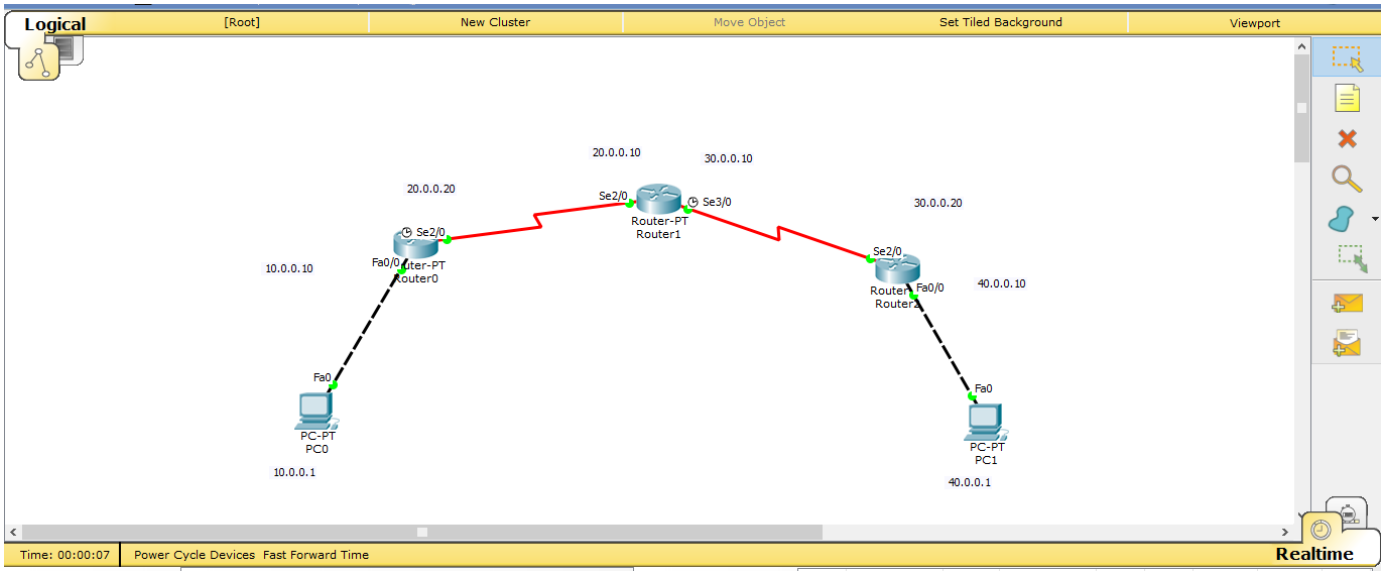
- Then, ping a message from 10.0.0.1 to 40.0.0.1

Observations

Result:

OUTPUT :


Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.1: bytes=32 time=21ms TTL=125
Reply from 40.0.0.1: bytes=32 time=7ms TTL=125
Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
Ping statistics for 40.0.0.1:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 2ms, Maximum = 21ms, Average = 10ms
PC>


Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
20.0.0.10
30.0.0.10
20.0.0.20
Se2/0
Se3/0
Router-PT
Router1
30.0.0.20
Se2/0
Se2/0
Fa0/0
Router-PT
Router0
10.0.0.10
Router
Router2
Fa0/0
40.0.0.10
Fa0
Fa0
PC-PT
PC0
PC-PT
PC1
10.0.0.1
40.0.0.1
Time: 00:00:07
Power Cycle Devices Fast Forward Time
Realtime

OBSERVATION: