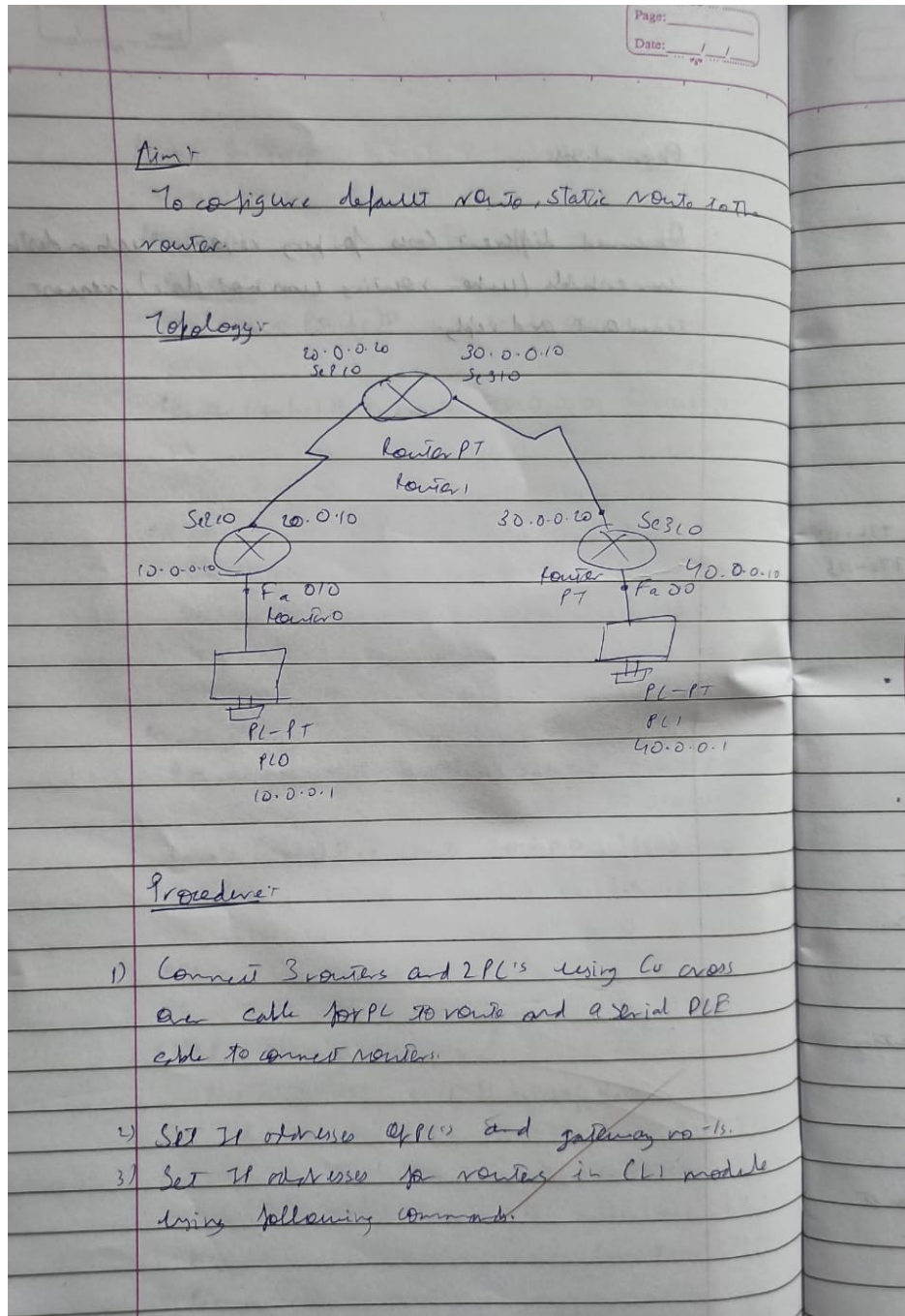# WEEK 3

Configure default route, static route to the Router.

OBSERVATION:

Enable

Config t

Interface fast Ethernet 0/0

IP address 10.0.0.10   255.0.0.0

No shut

exit

interface Se 2/0

IP address 20.0.0.10   255.0.0.0

no shut

exit

exit

- Repeat the same commands for other 2 routes with
  IP address.

- For route 1 set IP route of other ip addresses
  by the following steps:

config t

ip route 10.0.0.0   255.0.0.0   20.0.0.0

ip route 40.0.0.0   255.0.0.0   30.0.0.20

exit

exit

- For route 0 and 3 we set default IP address
- For default IP route:

    config T

    ip route 0.0.0.0   0.0.0.0   20.0.0.20

    ip route 0.0.0.0   0.0.0.0   30.0.0.20

    exit

- Go To command prompt and Type ping messages to send packets.

O/P:

ping 40.0.0.1

pinging 40.0.0.1 with 32 bytes of data

Request Timed out

Reply from 40.0.0.1 with 32 bytes of data

Reply from 40.0.0.1 bytes=32 time=16 ms TTL=123

Reply from 40.0.0.1 bytes=32 time=2 ms TTL=123

Ping statistics for 40.0.0.1

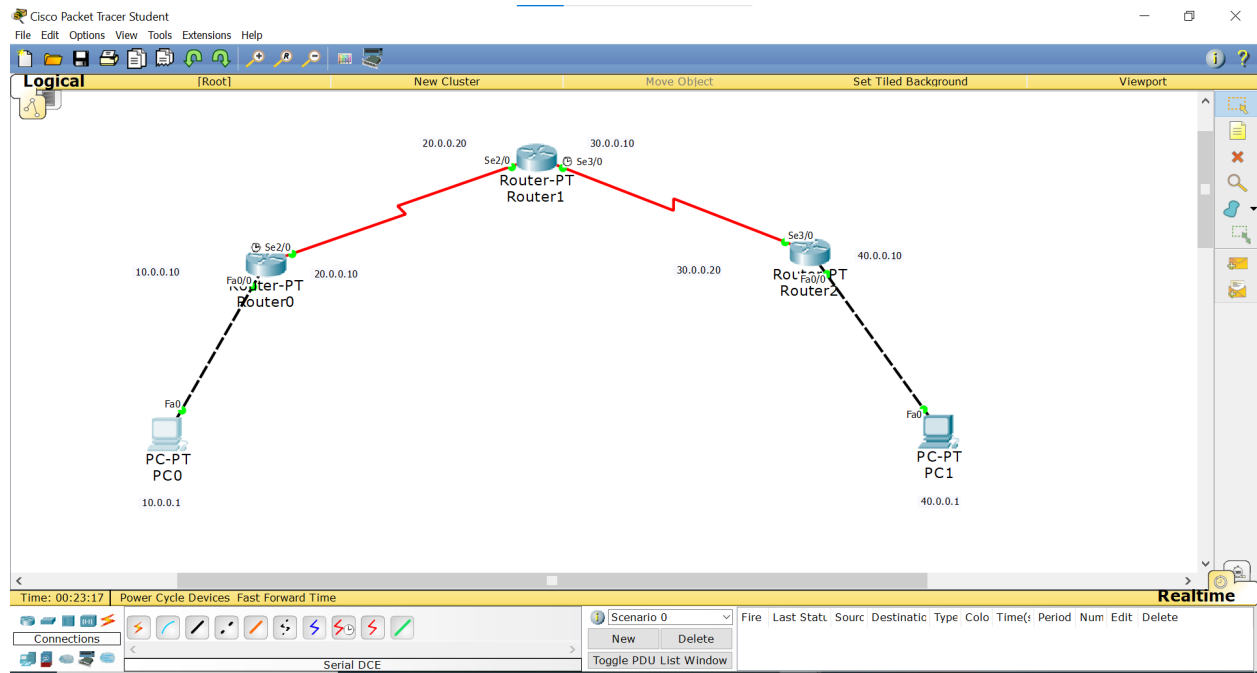Packets sent=4, received=3, Lost=1

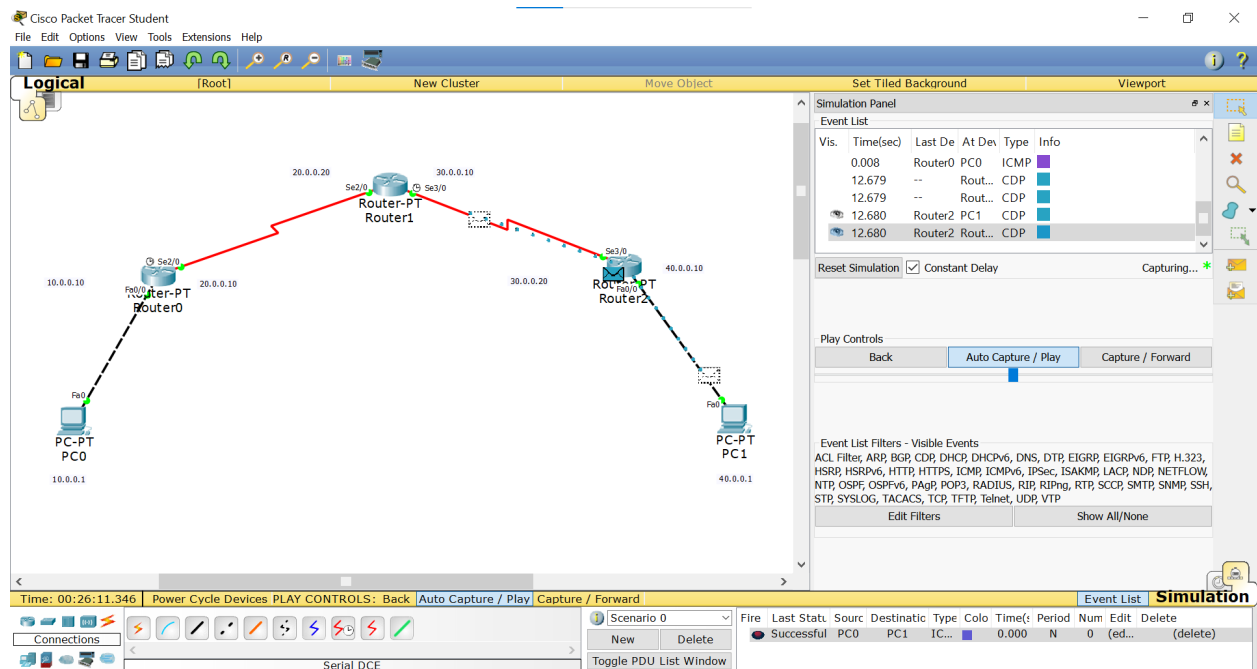min=2ms, max=16ms, avg. =6ms

Observations

- A default route is the route which packet Takes when no router is available for an IP destn.

- If a packet is received device first check IP destn address if it is found, it searches in routing Table.

- If remote destn is not listed, the packet is forwarded to next hop towards destn, using default route.

- It operates until packet is delivered.

TOPOLOGY:

OUTPUT:

PC0

Physical | Config | **Desktop** | Custom Interface

Command Prompt

```
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=2ms TTL=125
Reply from 40.0.0.1: bytes=32 time=16ms 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 = 16ms, Average = 6ms

PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes=32 time=21ms TTL=125
Reply from 40.0.0.1: bytes=32 time=9ms TTL=125
Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
Reply from 40.0.0.1: bytes=32 time=4ms TTL=125

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 21ms, Average = 9ms

PC>
```