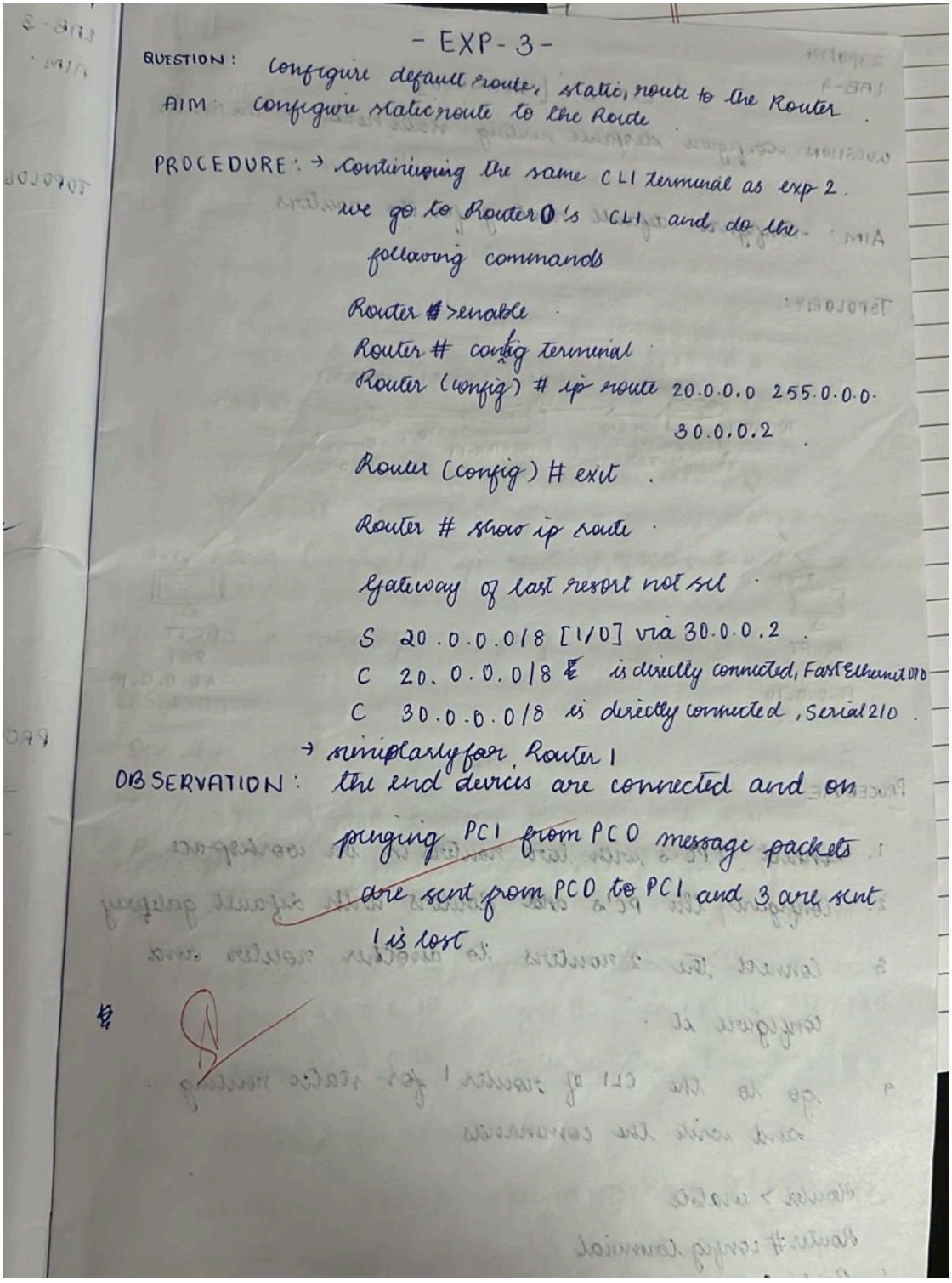
EXP- 3a

OBSERVATION



- EXP-3 -

QUESTION: Configure default route, static route to the Router.

AIM: Configure static route to the Route.

PROCEDURE: → Continuing the same CLI terminal as exp 2.

we go to Router 0's CLI and do the following commands

Router # >enable

Router # config terminal

Router (config) # ip route 20.0.0.0 255.0.0.0 30.0.0.2

Router (config) # exit

Router # show ip route

Gateway of last resort not set

S 20.0.0.0/8 [1/0] via 30.0.0.2

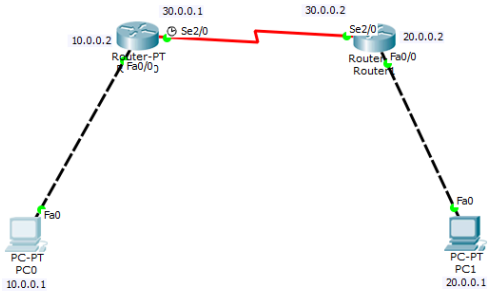
C 20.0.0.0/8 is directly connected, FastEthernet0/0

C 30.0.0.0/8 is directly connected, Serial2/0

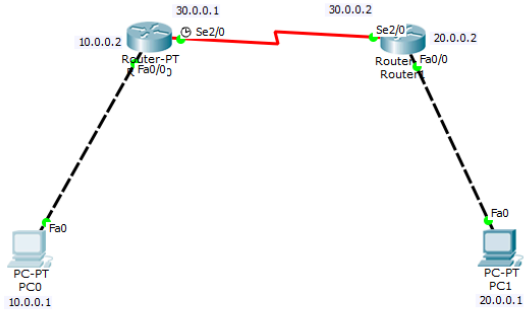
→ similarly for Router 1

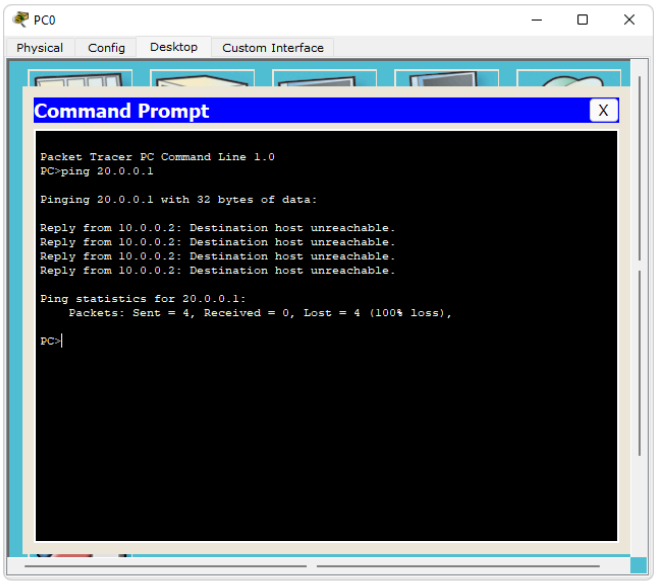
OBSERVATION: the end devices are connected and on pinging PC1 from PC0 message packets are sent from PC0 to PC1 and 3 are sent 1 is lost

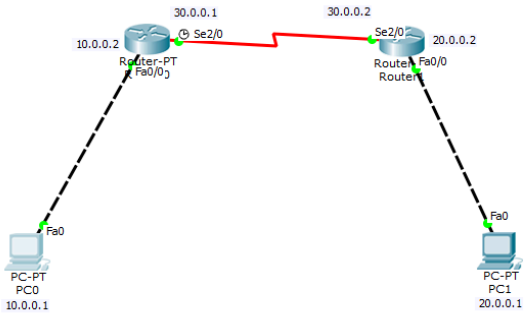
TOPOLOGY

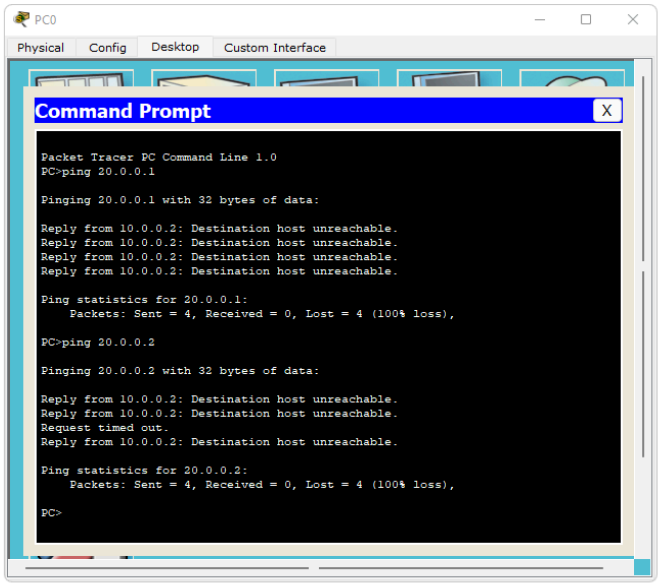


OUTPUT

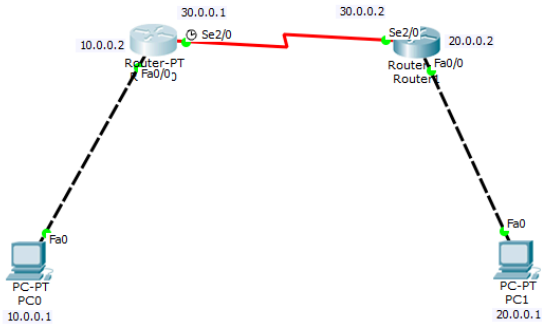


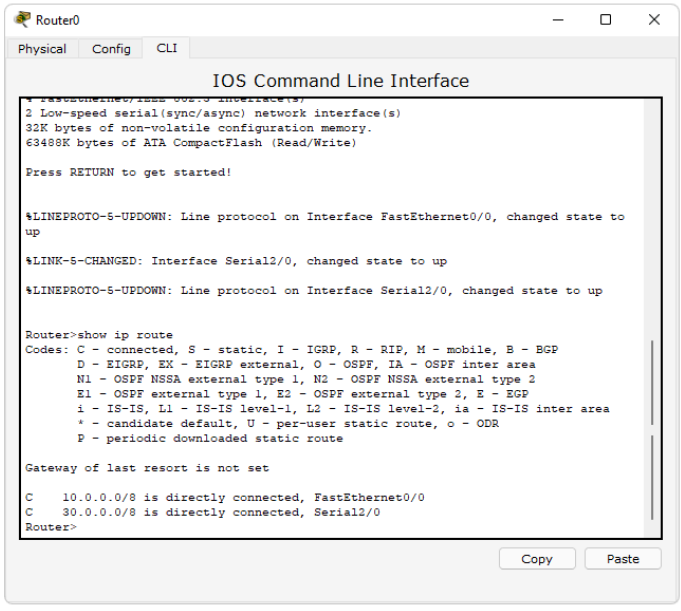


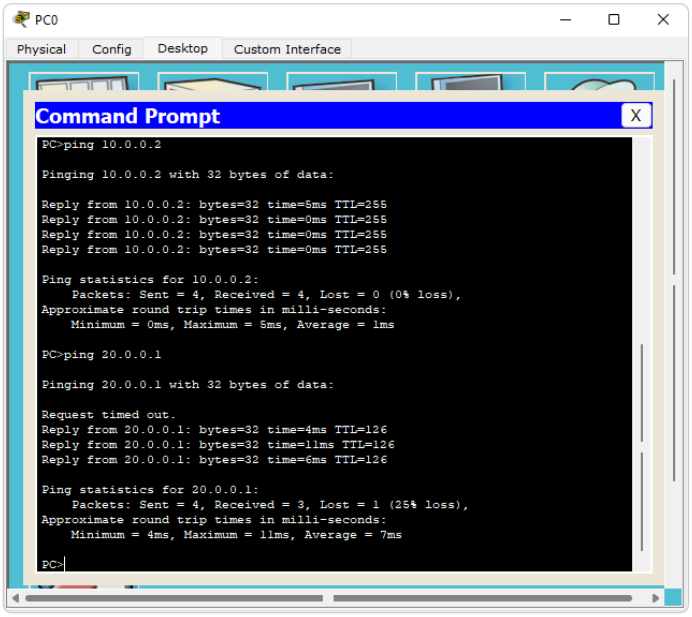


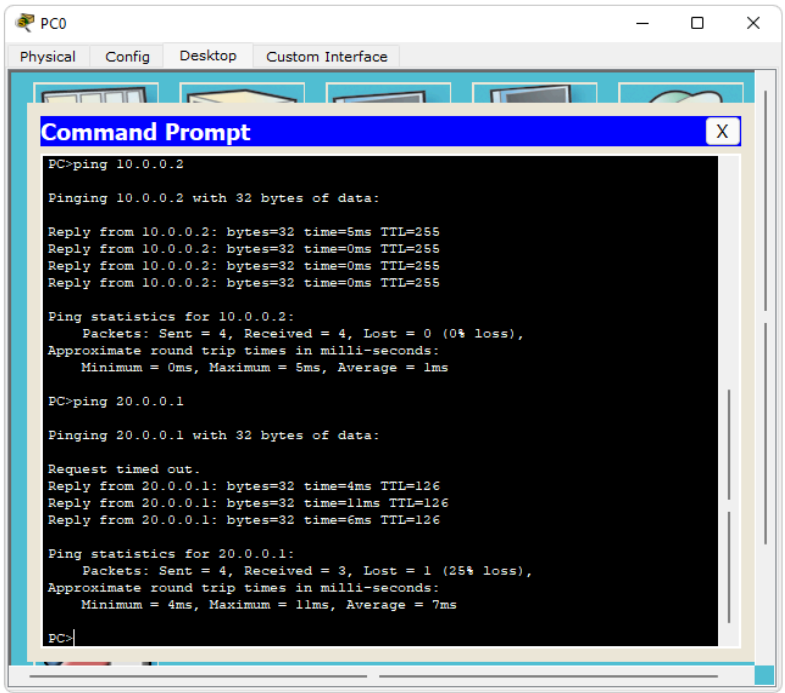


(After static routing)






PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=5ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 1ms
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.1: bytes=32 time=4ms TTL=126
Reply from 20.0.0.1: bytes=32 time=11ms TTL=126
Reply from 20.0.0.1: bytes=32 time=6ms TTL=126
Ping statistics for 20.0.0.1:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 4ms, Maximum = 11ms, Average = 7ms
PC>


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=5ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 1ms
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.1: bytes=32 time=4ms TTL=126
Reply from 20.0.0.1: bytes=32 time=11ms TTL=126
Reply from 20.0.0.1: bytes=32 time=6ms TTL=126
Ping statistics for 20.0.0.1:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 4ms, Maximum = 11ms, Average = 7ms
PC>

EXP-3b

OBSERVATION

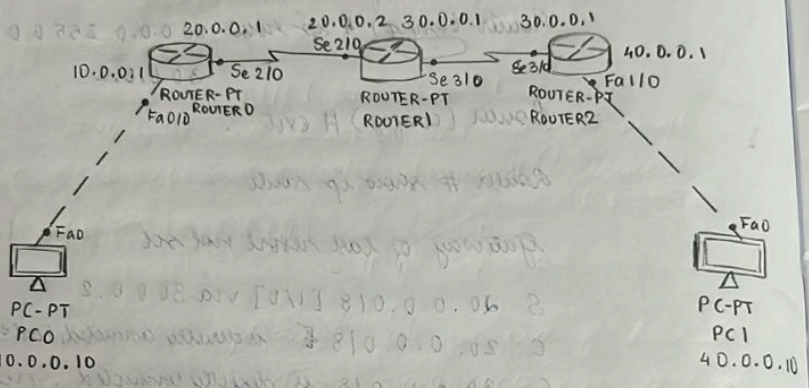
23/10/24
LAB-4

-EXP-3- [CONTINUED]

QUESTION: Configure default routing, static route to the router

AIM: Configure default routing for the routers.

TOPOLOGY:



PROCEDURE

1. connect 2 PC's with two routers in the workspace
2. Configure the PC's and Routers with default gateway
3. Connect the 2 routers to another router and configure it.
4. go to the CLI of router 1 for static routing. and write the commands

Router > enable
Router# config terminal
Router(config)# ip route 10.0.0.0 255.0.0.0 20.0.0.1
Router(config)# exit

Router# config terminal

Router (config)# ip route 40.0.0.0 255.0.0.0 30.0.0.2

Router (config)# exit.

5. go to the CLI of Router 0 for default routing and 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.

6. similarly do for router 1 while keeping the ip route command as.

Router (config)# ip route 0.0.0.0 0.0.0.0 30.0.0.1

7. Send a message i.e ping PC1 from PC0.

OBSERVATION:

⇒ On the command prompt:

PC > ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data

Request timed out.

Reply from 40.0.0.10: bytes = 32 time = 12 ms TTL = 125

Reply from 40.0.0.10: bytes 32 time = 12 ms TTL = 125

Reply from 40.0.0.10: bytes 32 time = 9 ms TTL = 125

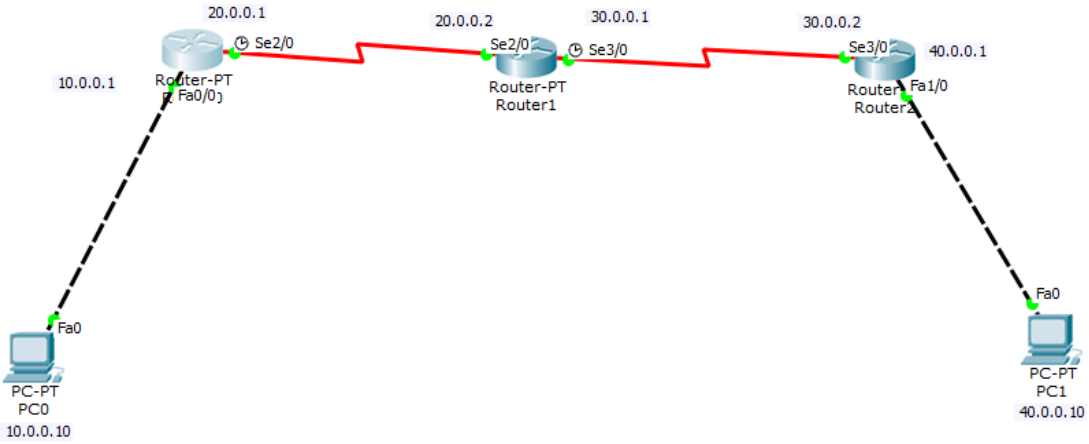
Ping statistics for 40.0.0.10:

Packets: Sent = 4, Received = 3, lost = 1 (25% loss),

Approximate round trip times in milliseconds:

Minimum = 2 ms, Maximum = 12 ms, Average = 7 ms.

TOPOLOGY



OUTPUT