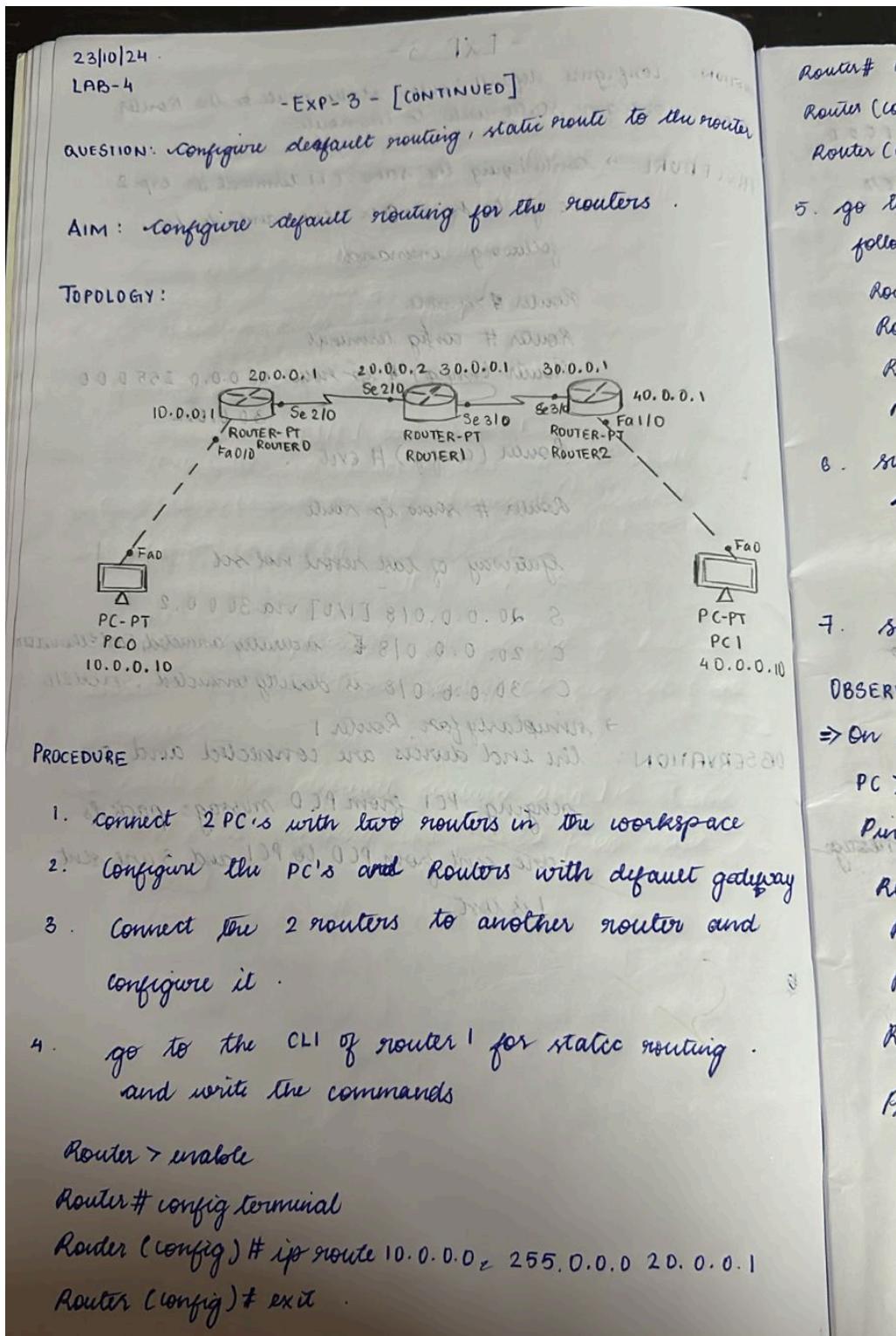


## LAB-4 23/10/24 (EXP-3b)

### OBSERVATION



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=12ms TTL=125

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

Reply from 40.0.0.10: Bytes=32 time=9ms 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 = 2ms, Maximum = 12ms, Average = 7ms.

13/11/

LAB-1

QUEST

AIM:

TOP

⇒ the show ip route of Router 0 .

Gateway of last resort is 20.0.0.2 to network 0.0.0.0

C 10.0.0.0/8 is directly connected, Fast Ethernet 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

⇒ similarly for Router 2 .

⇒ the show ip routes of Router 1

Gateway of last resort is not set

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

→ through this experiment, we learned how to connect two end devices namely PCs here through 3 routers .

→ 2 routers are default routing and 1 is static routing , on pinging one end device from other message is passed.

1st RTT wrt = after 50 ms : 01.0.0.0A many ports

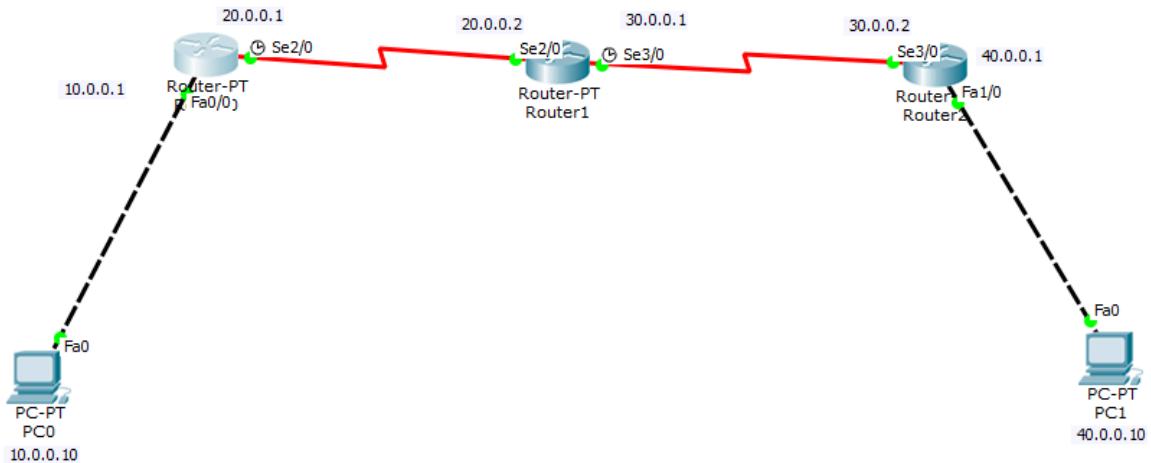
2nd RTT wrt = after 50 ms : 01.0.0.0A many ports

3rd RTT wrt = after 50 ms : 01.0.0.0A many ports

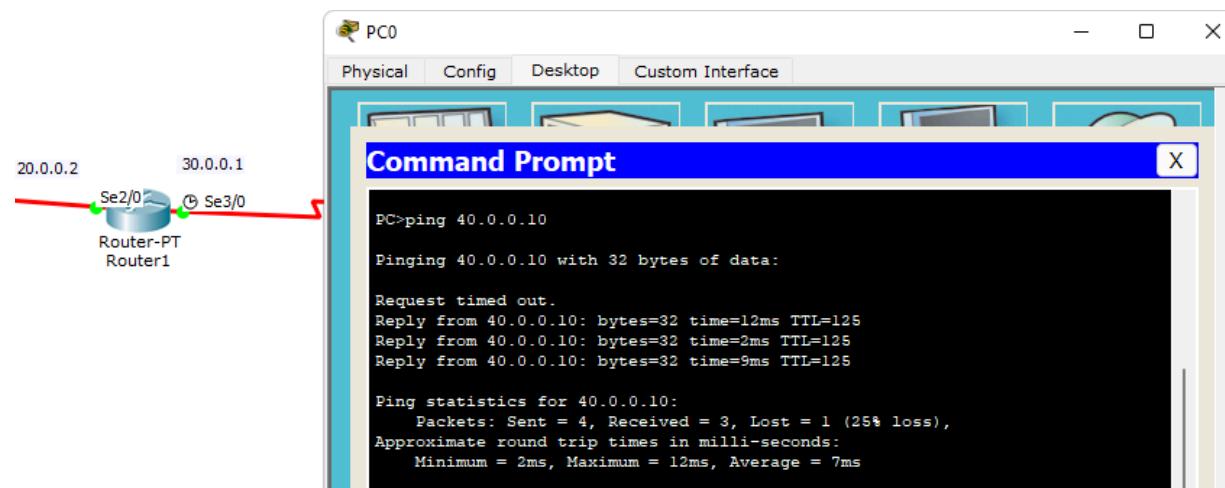
: 01.0.0.0A top window ports

(last RTT) = 7ms . S = 1000ms , R = 5ms . RTT = 12ms

## TOPOLOGY



## OUTPUT



```

Router>enable
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
      * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route

Gateway of last resort is 20.0.0.2 to network 0.0.0.0

C    10.0.0.0/8 is directly connected, FastEthernet0/0
C    20.0.0.0/8 is directly connected, Serial2/0
S*   0.0.0.0/0 [1/0] via 20.0.0.2
Router#
  
```