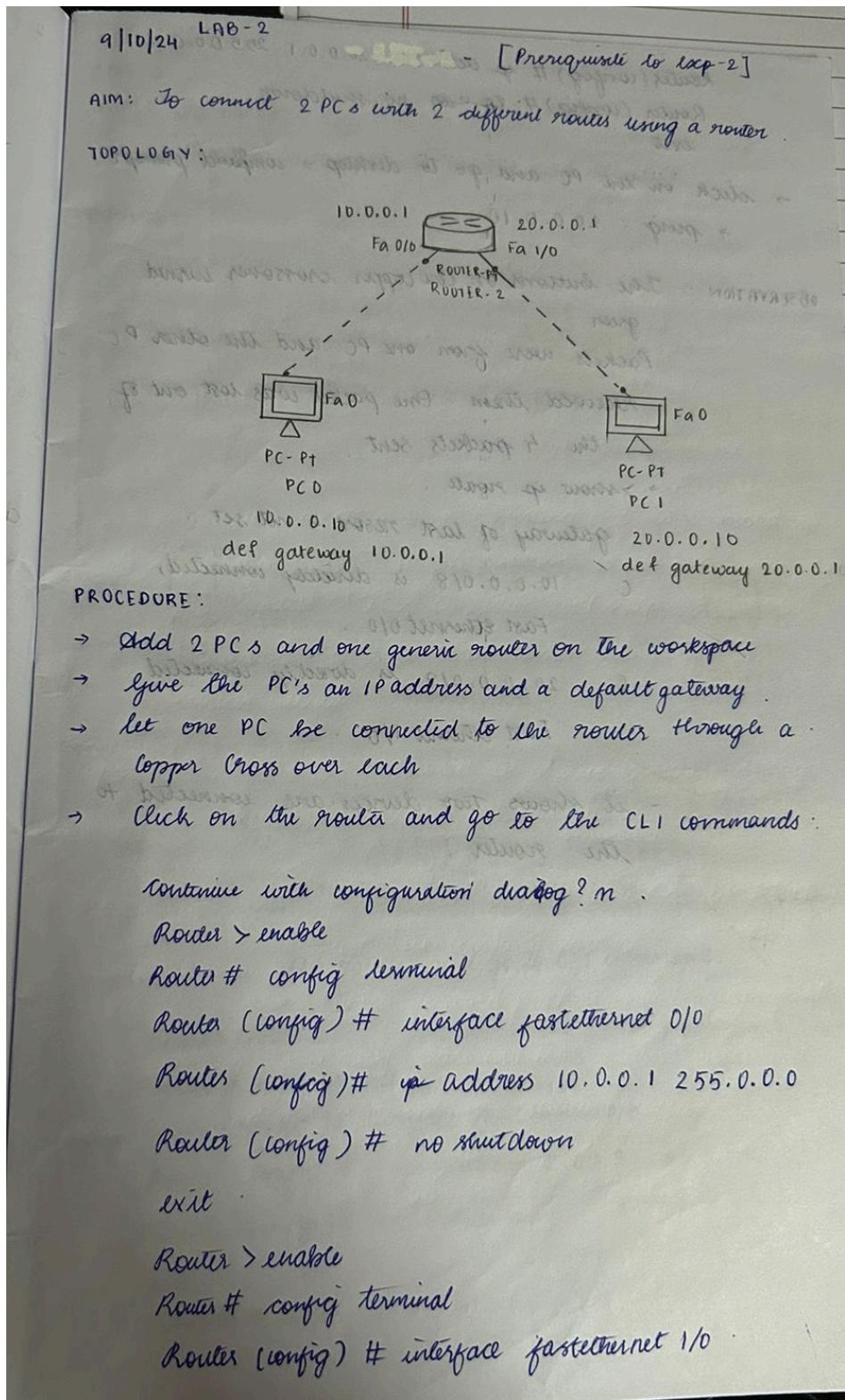


EXP-2a

OBSERVATION



Router(config)# ip address 20.0.0.1 255.0.0.0

Router(config)# no shutdown
exit

→ click on the PC and go to desktop → command prompt.

→ ping 20.0.0.10

OBSERVATION : The buttons on the copper crossover turned green

Packets were from one PC and the other PC received them. One packet was lost out of

the 4 packets sent

→ > show ip route

Gateway of last resort is not set

C 10.0.0.0/8 is directly connected,

Fast Ethernet 0/0

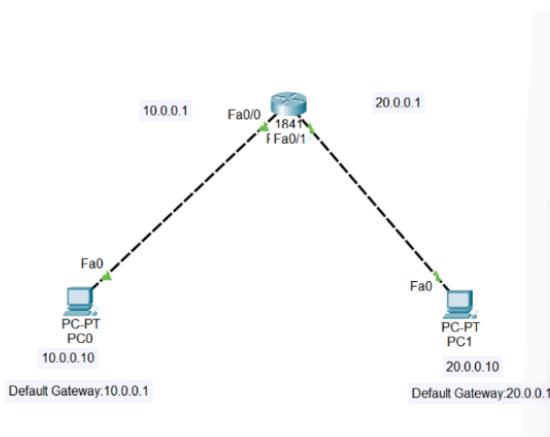
20.0.0.0/8 is directly connected

Fast Ethernet 1/0

- it shows two devices are connected to the router.

✓

TOPOLOGY



OUTPUT

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

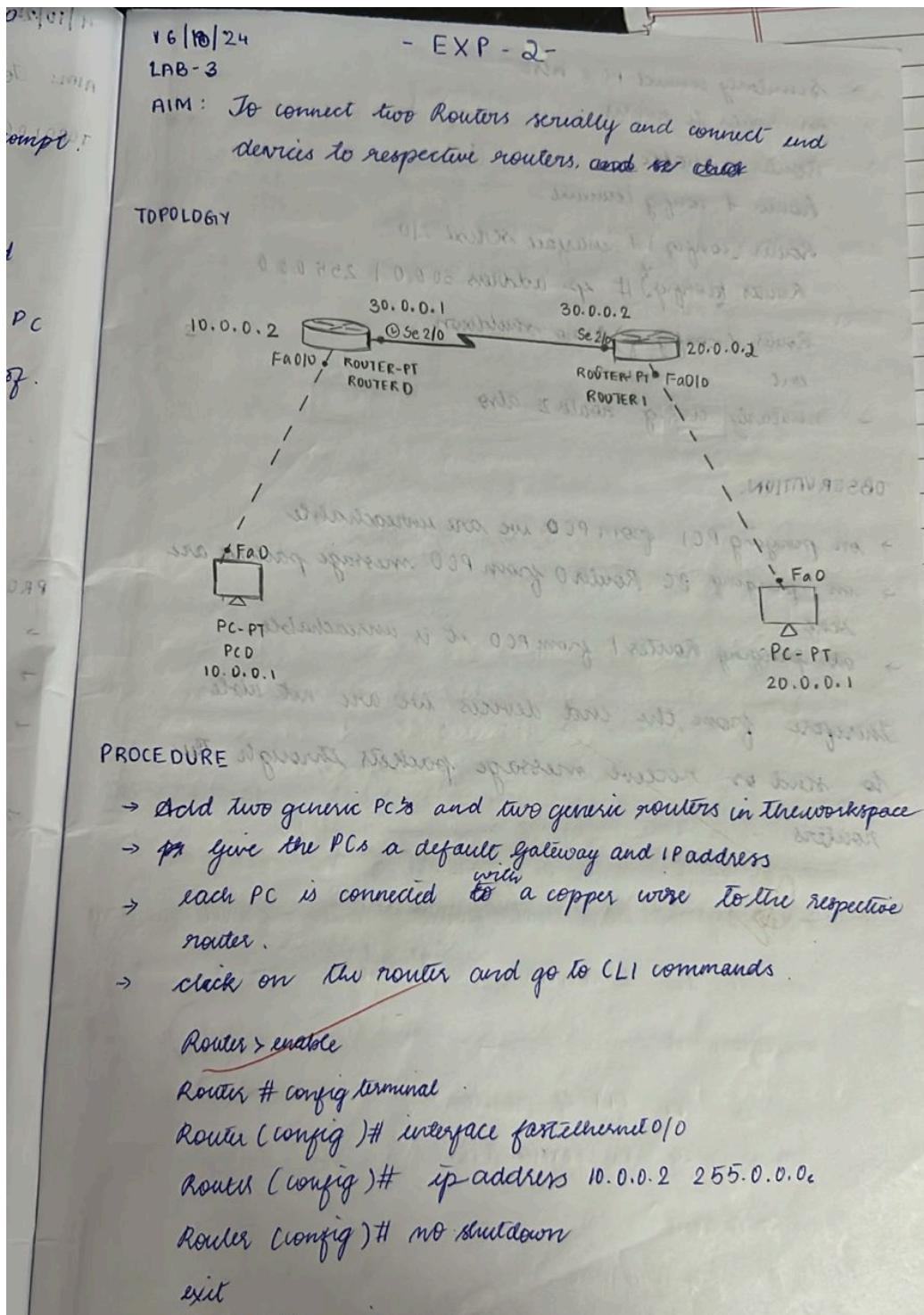
Request timed out.
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127

Ping statistics for 20.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 3ms
C:\>|
```

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface
Router>(config)#interface FastEthernet0/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
ROUTER-5-CHANGED: Interface FastEthernet0/0, changed state to up
ROUTER-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config)#exit
Router(config)#interface FastEthernet0/1
Router(config)#exit
Router(config)#interface FastEthernet0/0
Router(config)#exit
Router(config)#exit
Router#
WYSIWYG-CONF0_I: Configured from console by console
Router#  
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
E - OSPF external type 1, L - OSPF external type 2, E1 - EGP  
E2 - OSPF external type 2, E2 - EGP  
I - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
* - candidate default, D - per-user static route, o - ODR  
P - periodic downloaded static route  
Gateway of last resort is not set  
C 10.0.0.0/8 is directly connected, FastEthernet0/0  
C 20.0.0.0/8 is directly connected, FastEthernet0/1
Router#
```

EXP-2b

OBSERVATION



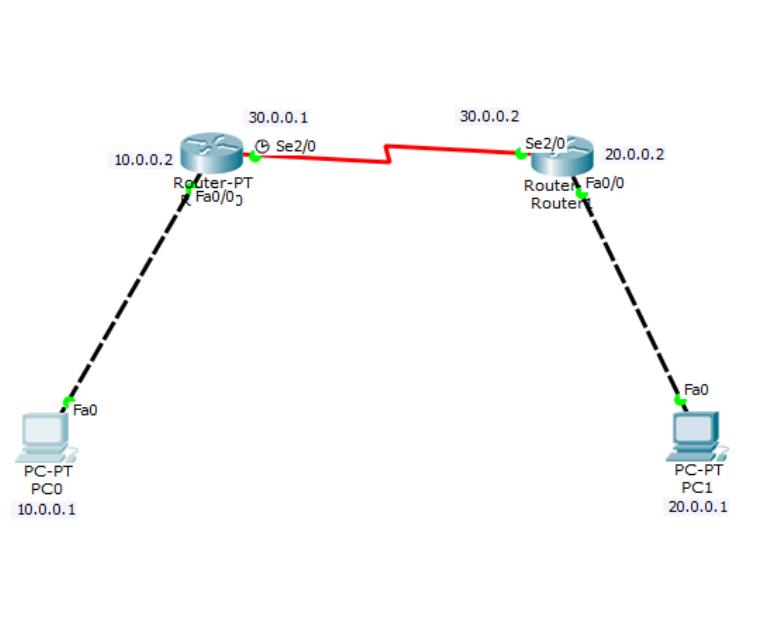
- similarly connect PC 2 also
- for router to router
- Router > enable
- Router # config terminal
- Router (config) # interface serial 2/0
- Router (config) # ip address 30.0.0.1 255.0.0.0
- Router (config-if) # no shutdown
- exit
- similarly config. router 2 also

OBSERVATION:

- on pinging PC1 from PC0 we are unreachable
- on pinging PC Router0 from PC0 message packets are sent
- on pinging Router1 from PC0 it is unreachable.

Therefore from the end devices we are not able to send or receive message packets through the routers

TOPOLOGY



OUTPUT

