Lab-2

lab2-b)Demonstrate the configure of default routers to the to the router

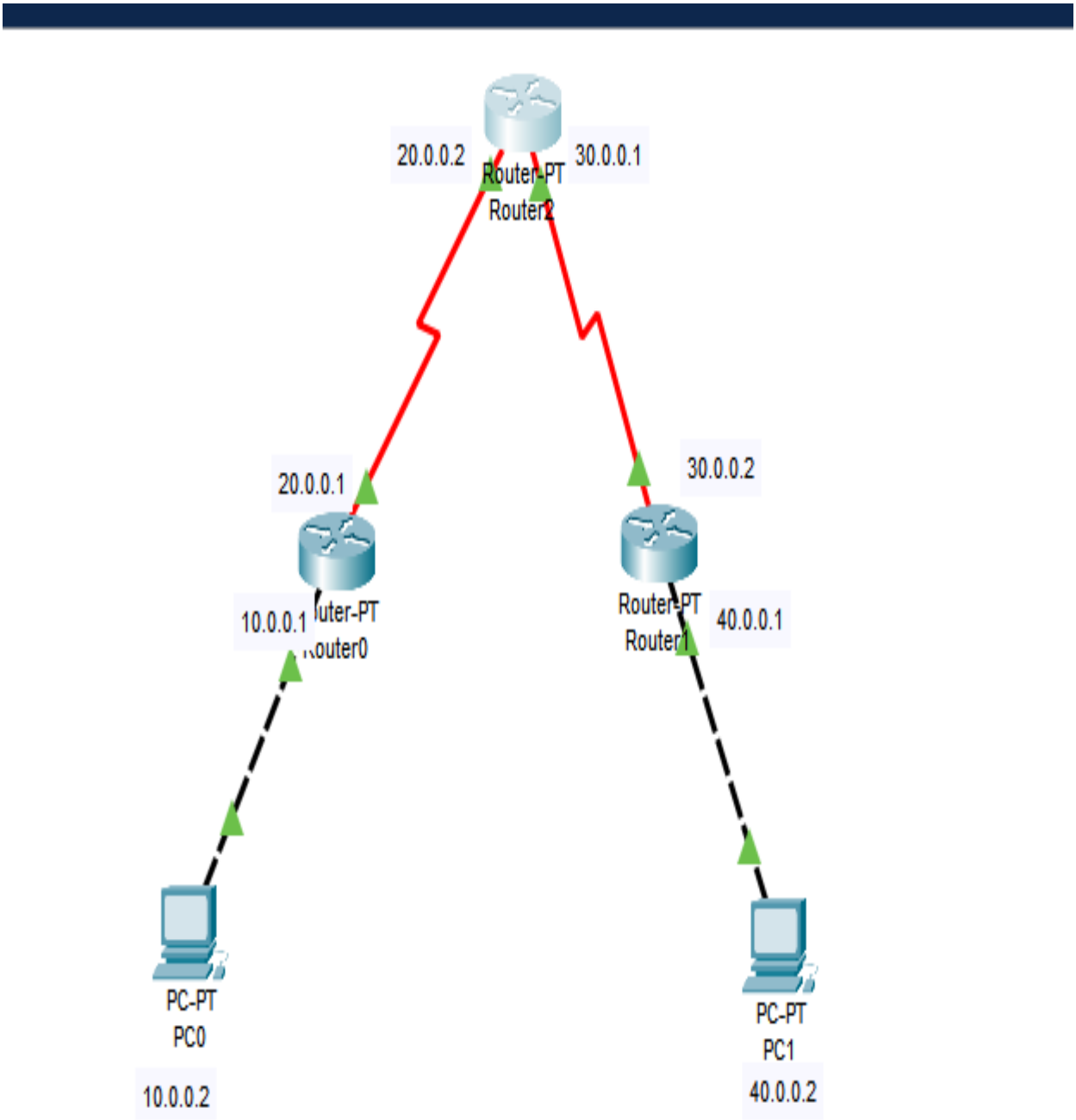

Fig-1.1 Demonstrate the configure of default routers to the to the router

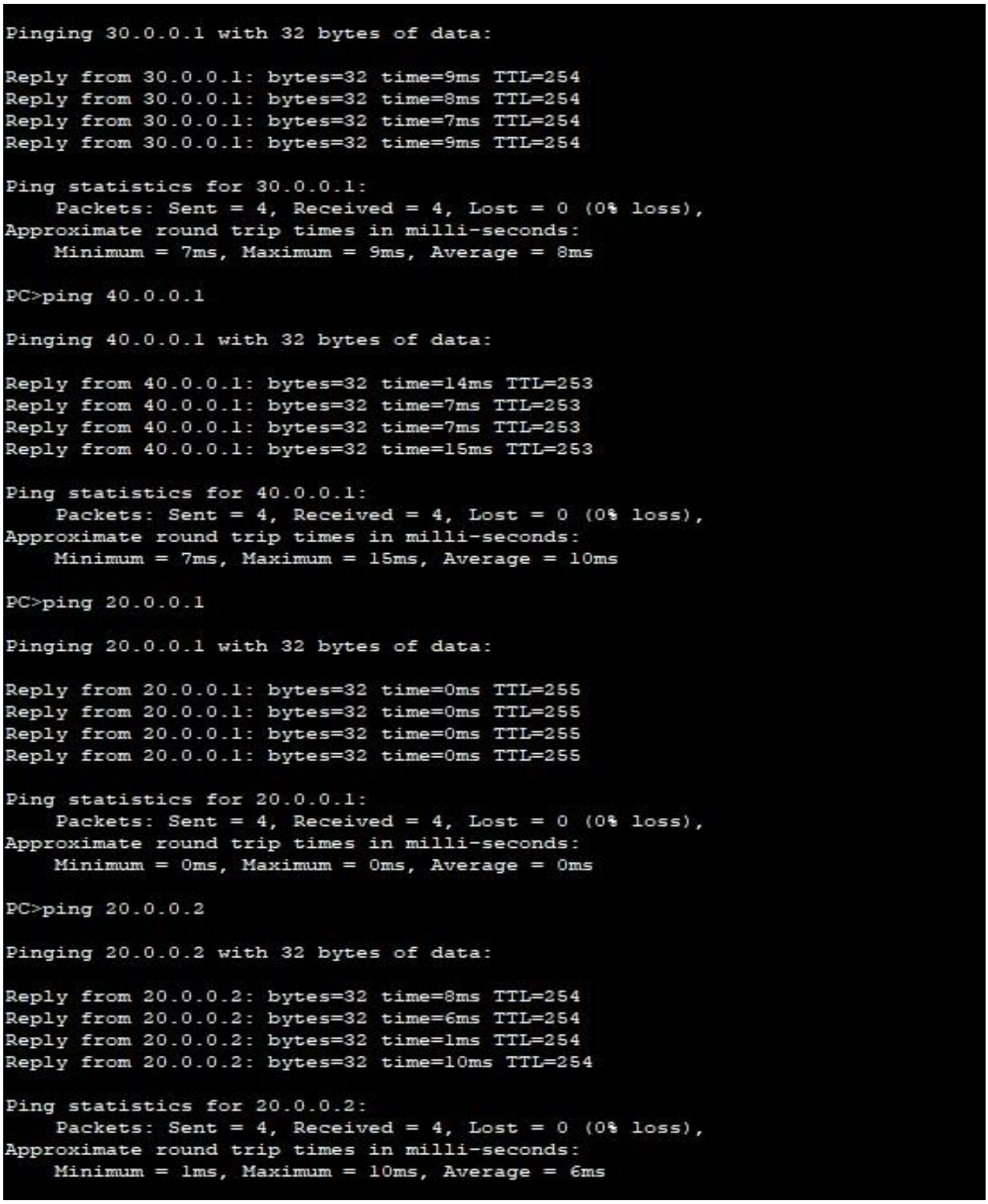

Fig 1.2 lab2-b)Demonstrate the configure of default routers to the to the router and explore ping command

LAB-III) demonstrate the configration of default ~~route~~ routes to the router

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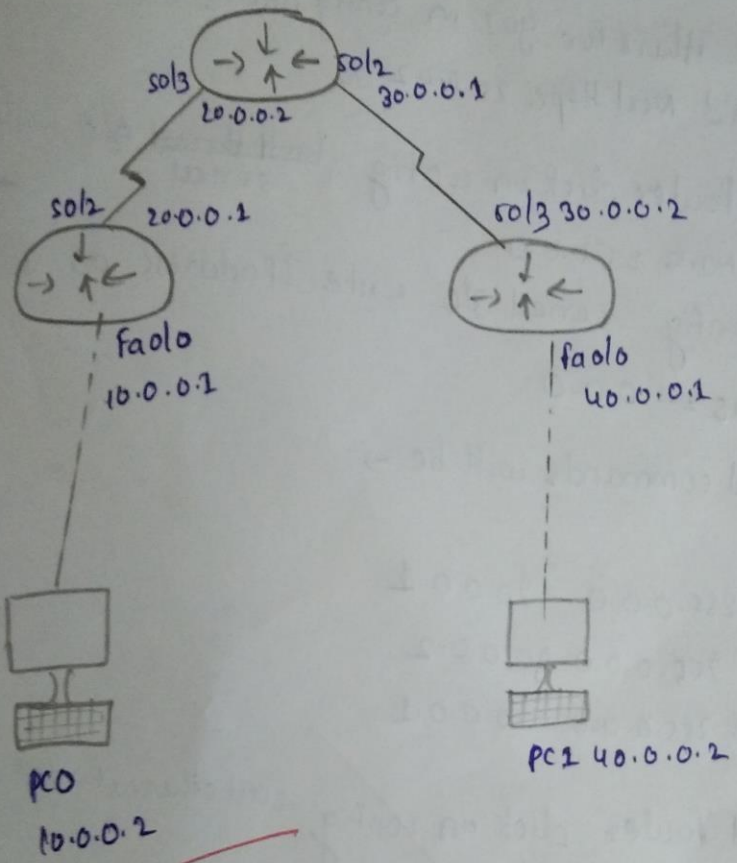

IP route →

destination n/w IP destination Mask Next hop - help us to reach the unknow network.

(2) ip route 30.0.0.0 255.0.0.0 20.0.0.1

(3) show ip route

(4) # ip route
30.0.0.0
255.0.0.0
20.0.0.2

(5) # ip route
40.0.0.0
255.0.0.0
20.0.0.2

Steps for configure the router →

(1) take 3 routers
(2) and take 2 pc from end devices
(3) click on the first pc and click on the Desktop and put IP address as 10.0.0.2, submet mark 255.0.0.0 and Default gateway 10.0.0.1
(4) click on first Router and click on config and in that write IP address as 10.0.0.1, subnet Marks 255.0.0.0
(5) click on serial 2/0 write IP address as 20.0.0.1 and subnet Mark will be 255.0.0.0.
(6) in config first Router click on CLI and write command like
show iproute
ip route 20.0.0.0 255.0.0.0 20.0.0.2
iproute 40.0.0.0 255.0.0.0 20.0.0.2
iproute 30.0.0.0 255.0.0.0 20.0.0.2
similarly will be there for gui in config static Network add 20.0.0.0 Mask 255.0.0.0 and Next Hope 20.0.0.2
(7) click on the Second Router click on config ~~fastEthernet~~ serial 0/0 write 20.0.0.2 & subnet Mark 255.0.0.0
click on the ~~fast~~ config serial 3/0 write IP address as 30.0.0.1 and subnet mark as 255.0.0.0.
(8) go to the CLI and commands will be →
show iproute
iproute 20.0.0.0 255.0.0.0 20.0.0.1
iproute 40.0.0.0 255.0.0.0 30.0.0.2
iproute 10.0.0.0 255.0.0.0 20.0.0.1
(8) similarly for Third Router click on config fastethernet 0/0 write - 40.0.0.2 and Mask address - 255.0.0.0
click on serial 2/0 where IP address should be 30.0.0.2 subNet Mask 255.0.0.0

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In router 3rd when we click on CLI we should write

IP route 30.0.0.0 255.0.0.0 30.0.0.1
IP route 20.0.0.0 255.0.0.0 30.0.0.1
IP route. 10.0.0.0 255.0.0.0 30.0.0.1

similar for pc1 go to dustop where static IP address 40.0.0.2, 255.0.0.0
Default gateway - 40.0.0.1.

go to first pc1 and we should execute ping command
→ ping 40.0.0.1

~~o/p~~ Observation →

Pinging 40.0.0.1 with 32 bytes of Data:

Replay from 40.0.0.1 bytes=32 time=14 ms TTL=253
Replay from 40.0.0.1 bytes=32 time=7MS TTL=253
Replay from 40.0.0.1 bytes=32 time=7MS TTL=253
Replay from 40.0.0.1 bytes=32 time=15MS TTL=253

Ping statics for 40.0.0.1:
Packet sent=4 Recived=4 Lost=0 (0% loss)
Approximate round trip time in milliseconds:
Minimum=7MS, Maximum=15MS, Average=10MS

show ip route ?

show ip route
C 10.0.0.0/8 is directly connected fastEthernet 0/0
C 20.0.0.0/8 is directly connected, serial 1/0
S 30.0.0.0/8 [1/0] via 20.0.0.2
S 40.0.0.0/8 [1/0] via 20.0.0.2.

Rw 15/10/24

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