Lab 04

To configure default and static routers through a connection of routers.

Topology

serial2/0: 20.0.0.2
serial3/0:30.0.0.1

Se2/0 ...uter-PT
R Se3/0 ...

Se2/0

serial2/0 20.0.0.1

fa0/0 10.0.0.2 Fa0/0 uter-PT
Router0

Fa0

Se2/0

Router-PT
R Fa0/0

serial2/0: 30.0.0.2

fa0/0: 40.0.0.1

Fa0

PC-PT
PC0

IP_Address 10.0.0.1

Gateway: 10.0.0.2

PC-PT
PC1

40.0.0.2

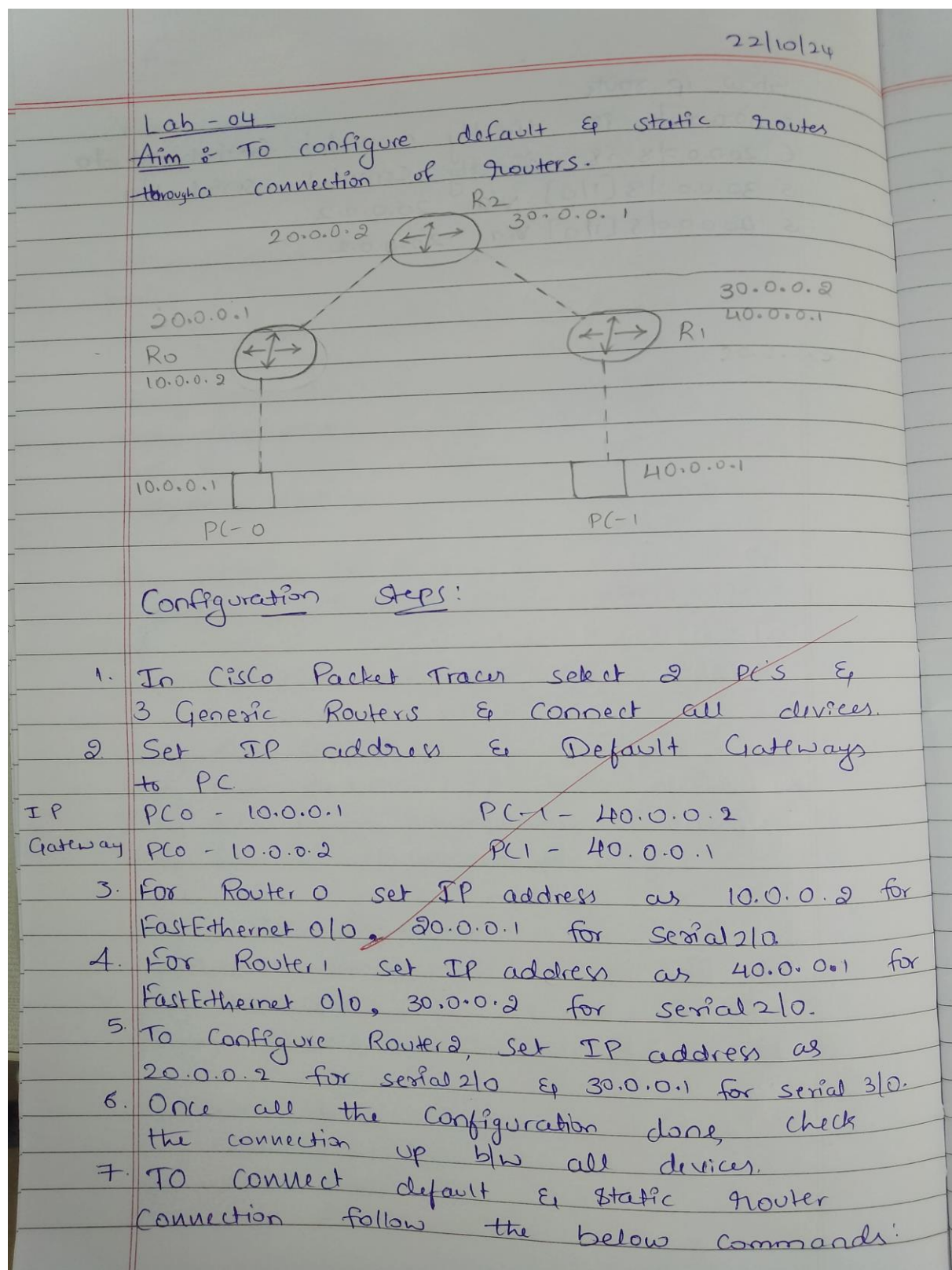40.0.0.1
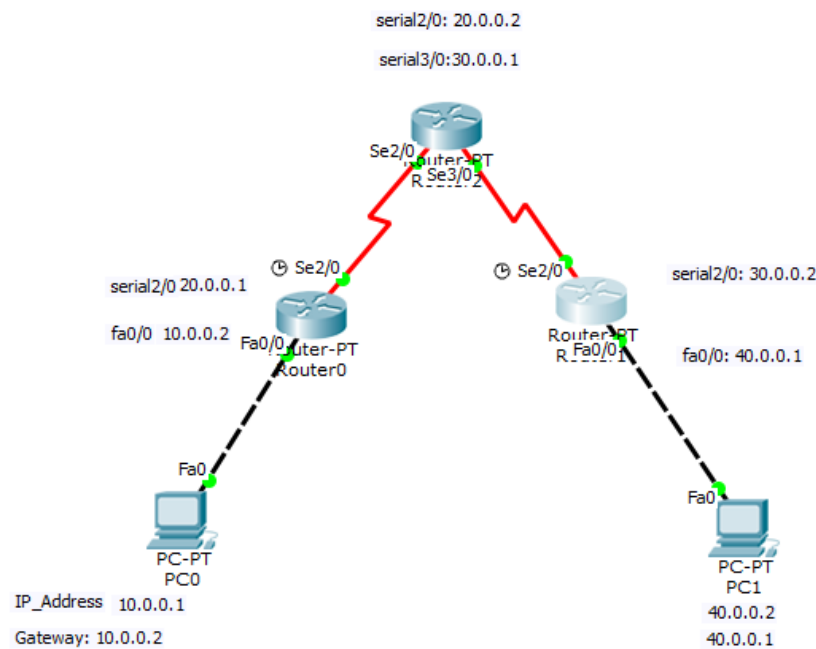
Output


```
PC>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=3ms TTL=123
Reply from 40.0.0.2: bytes=32 time=23ms TTL=123
Reply from 40.0.0.2: bytes=32 time=17ms TTL=123
Reply from 40.0.0.2: bytes=32 time=22ms TTL=123

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 23ms, Average = 16ms

PC>
```

Observation:

22/10/24

Lab - 04

Aim :- To configure default & static routes through a connection of routers.

R2
20.0.0.2
30.0.0.1

30.0.0.2
40.0.0.1
20.0.0.1
Ro
10.0.0.2
R1

10.0.0.1
PC-0

40.0.0.1
PC-1

Configuration Steps:

1. In Cisco Packet Tracer select 2 PC's & 3 Generic Routers & Connect all divices.

2. Set IP address & Default Gateways to PC.

IP   PC0 - 10.0.0.1   PC-1 - 40.0.0.2
Gateway   PC0 - 10.0.0.2   PC1 - 40.0.0.1

3. For Router0 set IP address as 10.0.0.2 for FastEthernet 0|0, 20.0.0.1 for serial 2|0.

4. For Router1 set IP address as 40.0.0.1 for FastEthernet 0|0, 30.0.0.2 for serial 2|0.

5. To Configure Router2, set IP address as 20.0.0.2 for serial 2|0 & 30.0.0.1 for serial 3|0.

6. Once all the Configuration done, check the connection up b|w all devices.

7. To connect default & static router Connection follow the below commands:

Config t

Router 0 - (config) # ip route 0.0.0.0   0.0.0.0
                                          20.0.0.2
Router 1 - (config) # ip route 0.0.0.0 0.0.0.0 30.0.0.1
Router 2 - (config) # ip route 10.0.0.0 255.0.0.0 20.0.0.1
        - (config) # ip route 40.0.0.0 255.0.0.0   30.0.0.2

8. Now, ping to destination address.

Observation:

→ ping   40.0.0.2

pinging 40.0.0.2 with 32 bytes of data:

Reply from   40.0.0.2 : bytes = 32   time = 3ms TTL= 123
Reply from 40.0.0.2 : bytes = 32   time = 23ms TTL= 123
Reply from 40.0.0.2 : bytes = 32   time = 17ms   TTL = 123
Reply from 40.0.0.2 : bytes = 32   time = 22ms TTL = 123

ping statistics for 40.0.0.2 :
    Packets : sent = 4, Recieved = 4, Lost = 0 (0% Loss),
Approximate round trip times in milli-seconds :
    Minimum = 3ms, Maximum = 23ms, Average = 16ms.

22/10/24