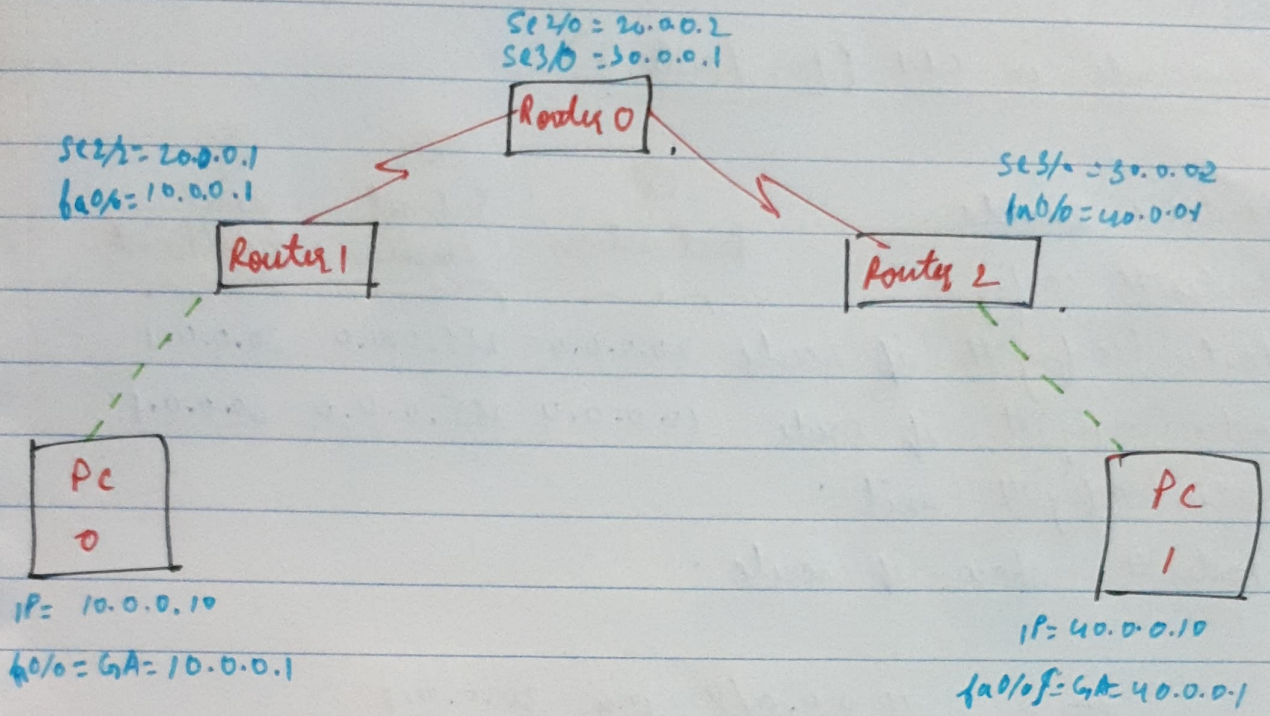
Name - Nimit Sejal.
USN - 1BM18CS063
Date - 8/10/20 - THU.

CN - Lab-3.



Observations.

→ Each router knows only about its immediate neighboring signals.

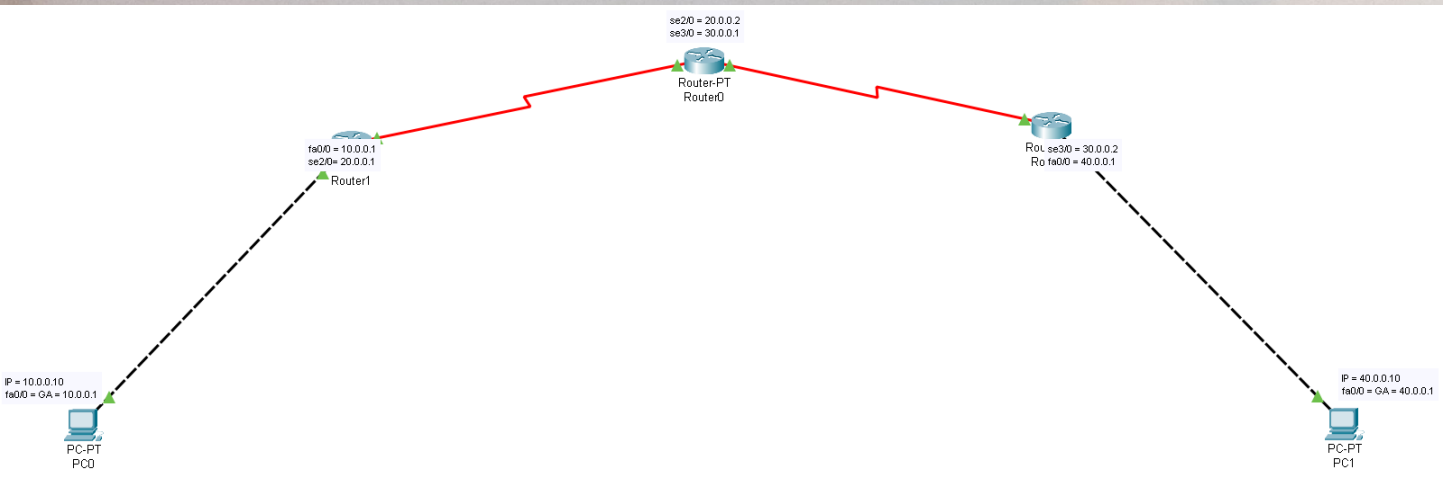
→ It don't know anything beyond that.

→ R1 knows about 10.0.0.0 & 20.0.0.0.

R2 knows about 30.0.0.0 & 40.0.0.0.

R0 knows about 20.0.0.0 & 30.0.0.0.

→ To know about further signals, it should go beyond its end points.



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Commands in CLI (for Router 2)

Destination Subnet Mask via/ End Point

```
Router> enable.
Router# config t.
Router(config)# ip route 20.0.0.0 255.0.0.0 30.0.0.1
Router(config)# ip route 10.0.0.0 255.0.0.0 30.0.0.1
Router(config)# exit.
Router# show ip route.
```

```
S    10.0.0.0/8 via 30.0.0.1
S    20.0.0.0/8 via 30.0.0.1
C    30.0.0.0/8 is directly connected, Serial 2/0
C    40.0.0.0/8 is directly connected, FastEthernet 0/0.
```

```
Packet Tracer PC Command Line 1.0
C:\>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=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Reply from 40.0.0.10: bytes=32 time=11ms TTL=125
Reply from 40.0.0.10: bytes=32 time=15ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=14ms TTL=125

Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 15ms, Average = 10ms

C:\>
```