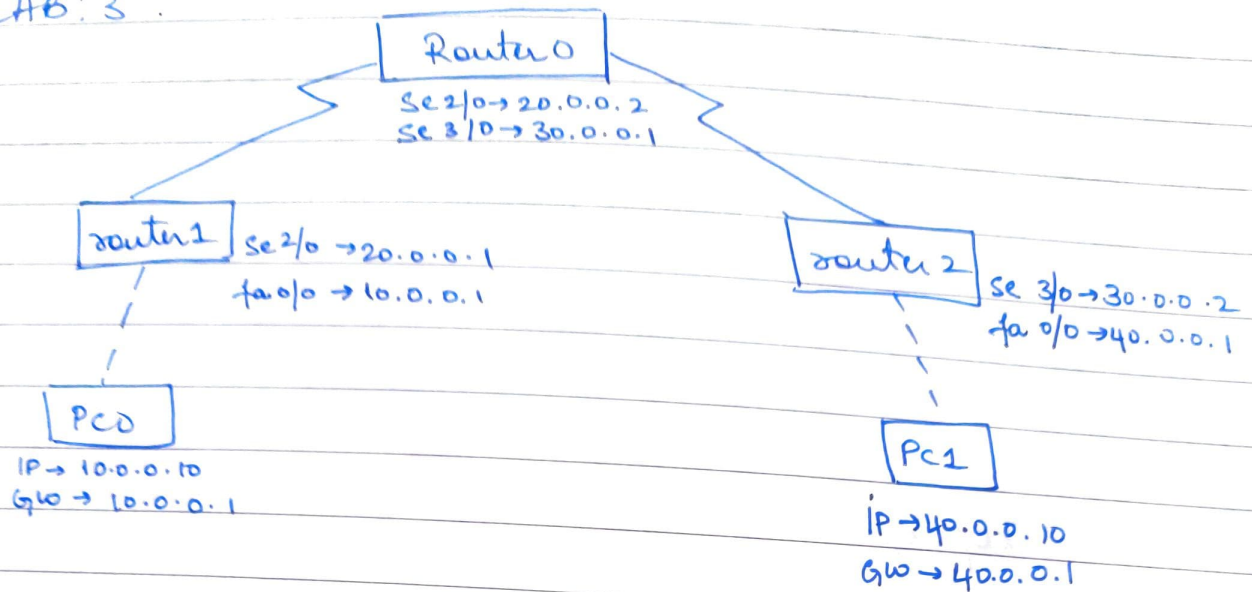


## LAB: 3



## Observations:

- Each router knows only about its immediate neighbouring signals
- It doesn't know anything beyond that.
- R<sub>1</sub> knows about 10.0.0.0 & 20.0.0.0
- R<sub>2</sub> knows about 30.0.0.0 & 40.0.0.0
- R<sub>0</sub> knows about 20.0.0.0 & 30.0.0.0
- To know about further signal, it should go beyond its end points.

## Command in CLI (for Router 2)

```
Router > enable
```

```
Router # config terminal
```

```
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.
```

Destination Host unreachable: means that your computer is not getting an IP address from router.

Request timed Out: Error message means the host we are pinging might be: down or its not known.

Reply from 40.0.0.10: bytes=32 time=16ms TTL=125 means that the ping command from 10.0.0.10 to 40.0.0.10 is successful.