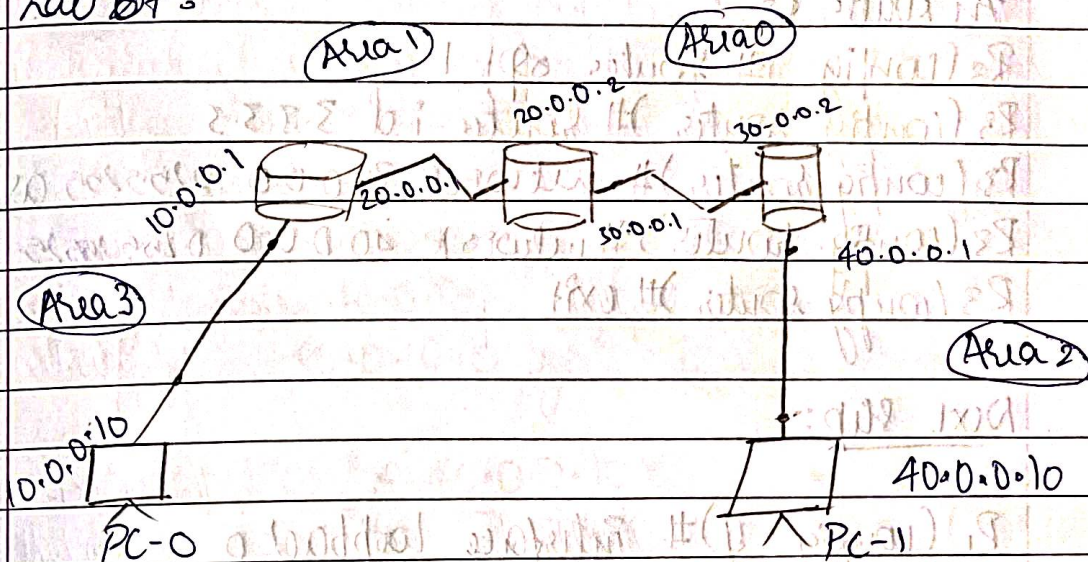


## Experiment :-

Q - ?

27/7/23 Lab 67 :-



## Procedure:-

- Configure the PC's with IP address & gateway.
- Configure each of the routers according to IP address given.
- Encapsulation ppp & clockset need to be set as done in RIP protocol experiment.

In Router R1,

```

R1(config)# router ospf 1
R1(config-router)# router-id 1.1.1.1
R1(config-router)# network 10.0.0.0 0.255.255.255 area
R1(config-router)# network 20.0.0.0 0.255.255.255 area 1
R1(config-router)# exit

```

In Router R2,

```

R2(config)# router ospf 2
R2(config-router)# router-id 2.2.2.2
R2(config-router)# network 20.0.0.0 0.255.255.255 area 1
R2(config-router)# network 30.0.0.0 0.255.255.255 area 0
R2(config-router)# exit

```



In Router R3,

R3(config)# router ospf 1

R3(config-router)# router-id 3.3.3.3

R3(config-router)# network 30.0.0.0 0.255.255.0 area 0

R3(config-router)# network 40.0.0.0 0.255.255.255 area 0

R3(config-router)# exit

Next step:-

R1(config-if)# interface loopback 0

R1(config-if)# ip address 172.16.1.252 255.255.0.0

R1(config-if)# no shutdown

R2(config-if)# interface loopback 0

R2(config-if)# ip address 172.16.1.253 255.255.0.0

R2(config-if)# no shutdown

R3(config-if)# interface loopback 0

R3(config-if)# ip address 172.16.1.254 255.255.0.0

R3(config-if)# no shutdown

Next step:-

R1(config)# router ospf 1

R1(config-router)# area 1 virtual-link 2.2.2.2

~~R1(config-router)#~~

R2(config)# router ospf 1

R2(config-router)# area 1 virtual-link 1.1.1.1

R2(config-router)# exit



Output :-

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)

Approx round trip times in milliseconds

min=2ms, max=10ms, Average=7ms.

