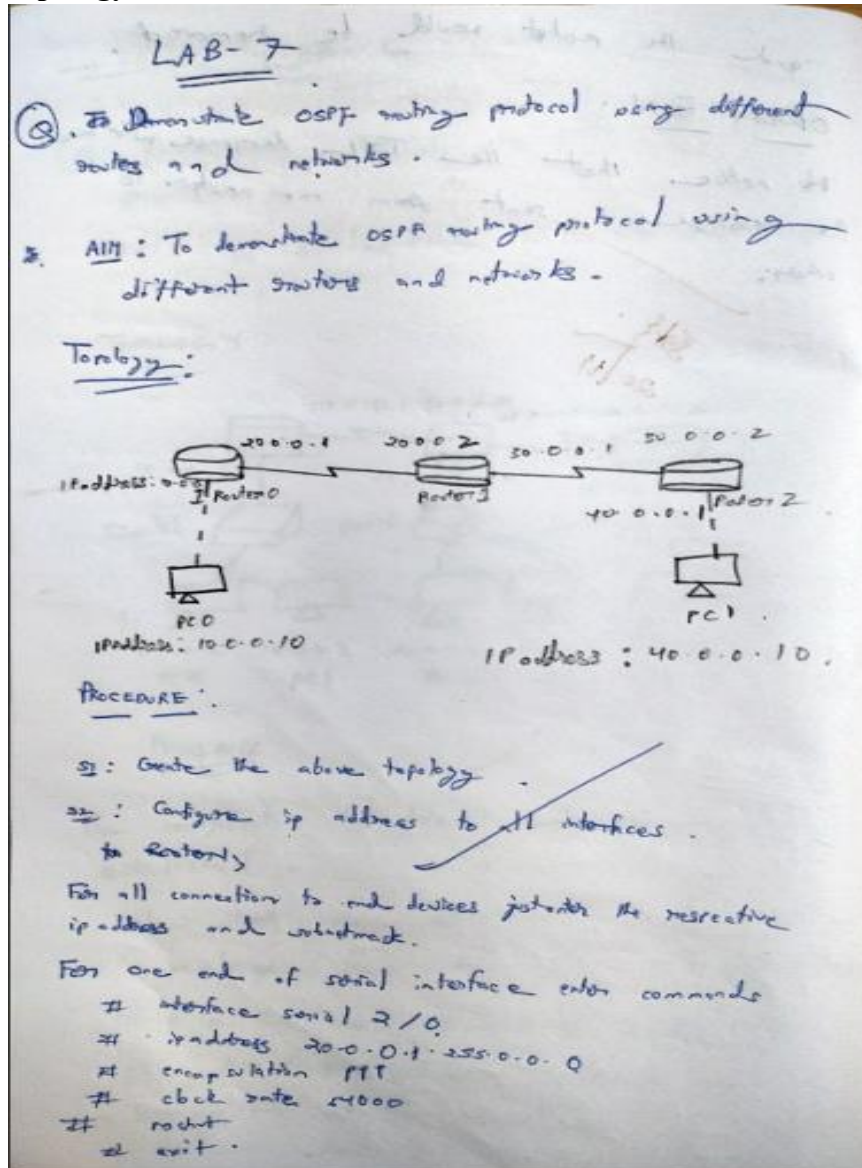


## Program 8

**Aim:** Configure OSPF routing protocol .

**Topology , Procedure and Observation:**



And for other end of a serial connection just enter encapsulation ppp and set the clock rate.

S-3 Now, Enable ip routing by configuring ospf routing protocol in all routers,

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 3

R1(config-router)# network 20.0.0.0 0.255.255.255 area 1

R1(config-router)# exit

Give similar commands for all routers.

S-4 Check routing table of R1,

Router# show ip route

Codes: C - connected

...

S-5 Check routing table of R3,

Router# show ip route

Codes: C - connected

...

S-6 Create virtual link between R1, R2, by R3  
we create a virtual link to connect area 3 to area 0.

R1,

R1(config)# router ospf 1

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

Do similar for R2.

S7: R2 & R3 get updates about Area 3. Now,  
check routing table of R3.

R3# show ip route

S8: Check connectivity between host 10.0.0.10 to 40.0.0.10

Observation:

We can successfully send ping from 10.0.0.10 to  
40.0.0.10. proof

Screen Shots:

