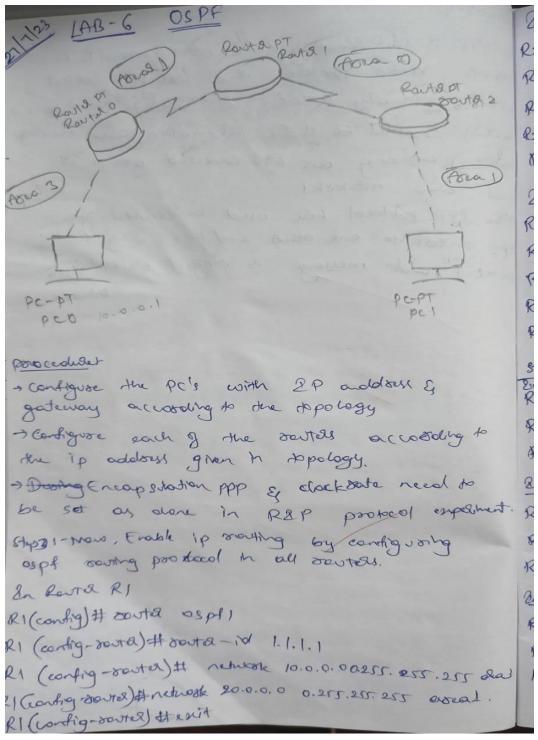
# **LAB 7**

## Configure OSPF routing protocol.

### **OBSERVATION:**

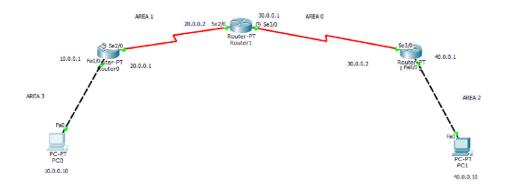


In Routed Re, le (contry) # souther ospf 1. R2 (config-vouter) +000tel-10/ 2.2.2.2 Re (config-soutel) threwood 20.0.0.0 0.255.255.255 deal b (config - voites) ++ network 30.0.0.00.255.255.255 dead Re (config-rowta) Henry In Routel \$3, Rs (worky) # ownthe ospf 1 P3(coffy-source) Horoutel-10 3.3.3.3 B3 (config-southe) # network 30.0.0.0 0.255.255-255 odea0 Rs (configurate nemotic 40.0.0.0 0.255.255.255 olea) R3 (config-row tra) ett exist sty 41- Loopback in sold interface RI (config-17) sinterface coop back o Ri (corfig-17)# ip add/80/12.16.1.252 255.255.00.0 Ri (configrit) # no short. Ensoute 2 in solval integrace R2 (cartig-it) # interface Coopback 0 R2(config-F)#ip address 172.16.1.253 255.255.0.0 Re (config-it) # no short En sours 3 R3 (config-it) Ht 1 Megaface Coopbook o R3 (config-A) # ip address 172.16.1.254 255.255.0.0. Bs (config-it) # no shut.

steps 1- viotual linke. In route RI RI (config) # oouter ospf 1 RI (config-sorter) Holea 1 viotical-link 2.2.2.2 -RI (conty south) # RI (contig) # exist In south R2 - Re (condig) Hoouted ospil 1 Re (config-douter) - Habea I violate lile 1.1.1. R2 (configurate exit - Thow ip souter 0 2A 10.0.0.0/8 [110/129] via 30.0.0.1 selial3/0 - 02A 20.0.0.48 [10/128] VID 30.0.0.1 selial 3/0 30.0.0.0/8 is validably subnetted, 2 subnets, 2 masky ( 30.0.0.018 is diseally connected, serial 310 C 30.0.0.1/32 13 directly connected solval 3/0 e 40.0.0.018 is directly corrected, sected 3/0 of timents troop C 172-16.0.0/16 is disectly connected, Loopback 0 ping output pinging 40.0.0.10 with 32 bytes of data medent Reply from 40.0.0.10 bytes = 32 time = 2 ms TTL=125 lepty from 40.0.0.10 bytes = 82 time=9ms TJL=25 leply from 40,0.0,10 bytes= 82 Almesjons TTL=125

physing statistics dos 40.0.0.10! parkets: sent = 4, Beceived = 3, LOST = 1 (25°1. LON), Approx sound toil in me! min = 2ms, max = 10ms, Avelage = 7ms

#### TOPOLOGY:



#### **OUTPUT:**

```
PC0
                                                                              X
                   Desktop
Physical
          Config
                             Custom Interface
   Command Prompt
                                                                                 X
   Packet Tracer PC Command Line 1.0
   PC>ping 40.0.0.10
   Pinging 40.0.0.10 with 32 bytes of data:
   Reply from 10.0.0.1: Destination host unreachable.
   Ping statistics for 40.0.0.10:
       Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   PC>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=4ms TTL=125
   Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
   Reply from 40.0.0.10: bytes=32 time=12ms 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 = 4ms, Maximum = 12ms, Average = 7ms
```

