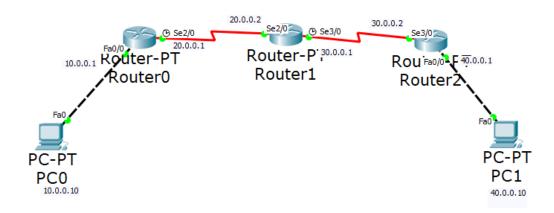
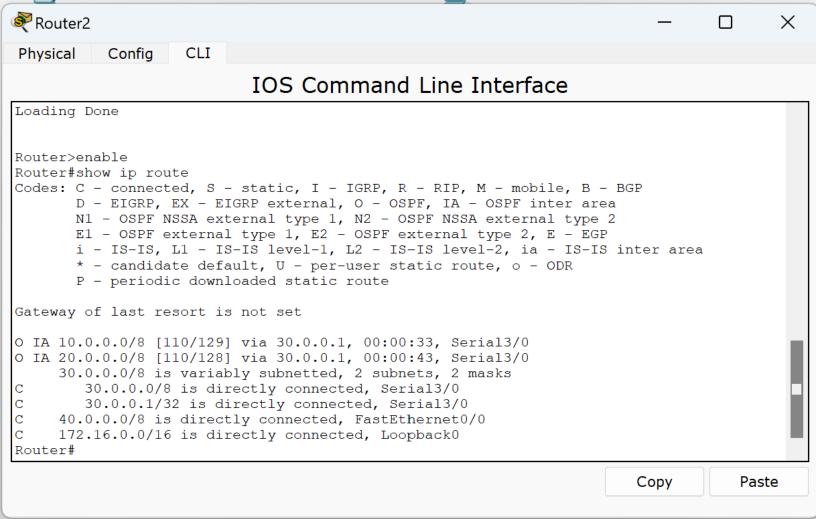
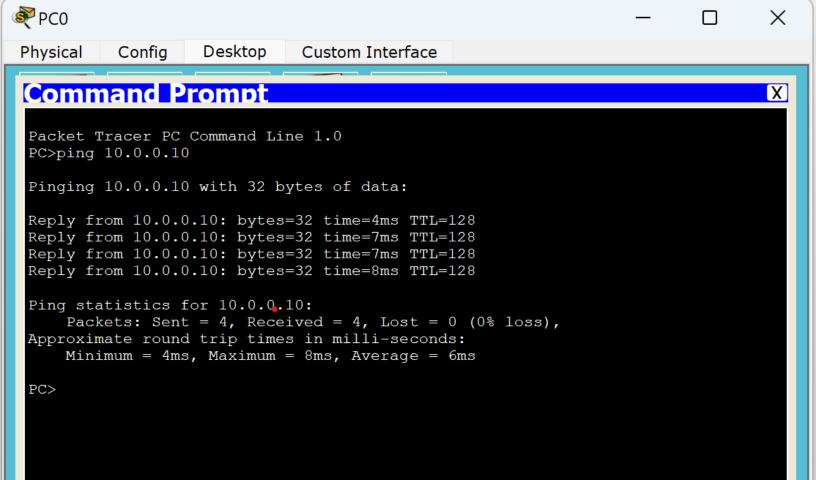
Experiment- 7

Aim: Configure OSPF routing protocol

Topology:







| | P-4 C-11 |
|---------------|---|
| | Bafna Gold |
| | |
| | OSPF |
| | |
| | open shortest hath first - Link state algo |
| | Aim: Configure OSPF routing protocol |
| | Topology: |
| | Axen Axen |
| | Area 1 Area 0 30.0.0.2 |
| | 10.0.0.1 20.0.0.1 30.0.0.1 40.0.0.1 |
| | Area 3) Area |
| | Areas) |
| A so | 2/ 10 distributed 30.000 0.255 255 155 a |
| 5 00 | in 120 TRA RECEN O D. O. A. H. Manudan Att Harris Line 1. |
| | 10.0.0.10 |
| | 201.00.00.0 gateman 40.00 |
| | |
| | Procedure: |
| | and the timber leading the |
| 6 320, 33 | configure the PC's with the IP address & |
| WHEN CO. | |
| | gateway march track and the tracking 12 |
| • | Configure each of the scouters acc to |
| | the ip address as shown in the topology Encapsulation ppp and clock state need |
| 19. 38c . E.B | Encapsulation ppp and clock vate need |
| | to be set as done in rip protocol. |
| | |
| / | Router 1 ospf |
| A JE A BE | RI(config)# scouter ospf1 |
| 1.10 | RI (angig ## soulor id 1.1.1.1 |
| | |
| (config rou | tu)# notwork 10.0.0.0 0.255.255 area 3 |
| RI (config-n | metwork 20.0.0.0 0.255, 255, 255 aral |
| RI (config- | atomy exit |
| 0 - | |

| | wood bock 0 -> software inkerface vistual interface |
|------------------|--|
| | Router R2 |
| | and the second s |
| | # viouter ospf 1 |
| | m# router-1d 2.2.2.2 |
| 82 (Config-route | # nelwork 20.0.0.0 0.255, 255, 255 areal |
| 2 (Config-mi | # metwork 30.0.0.0 0.255, 255, 255 area0 |
| R2 (config-2011 | # exit |
| | The state of the s |
| 201 | Router R3 |
| R3 (config) | # drouter ospf1 |
| 3 (antig-soul | # router-id 3.3.3.3 |
| 3 (config- a | melwork 30.0.0.0 0.255.255.255 area 0 |
| | TO TO THE ACT OF |
| N3 (Con | fig - viouter) #exit. |
| 1-0 | The state of the s |
| merjace | both back > creating copy |
| | - 2- 1 () |
| 10 | RI (config-if) # interface loopback () RI (config-if) # ip address 172.16.1.252 255.251 RI (config-if) # no Shutdown |
| 30.1 | R1 (config-4) # up address 172.16.1.252 255 151 |
| d | RI (config-if) # no Shutdown |
| una had | Colligate the the the security of |
| BULLDUY | R2 (config-if)# interface bookback 0 R2 (config-if)# up address 142.16.1.253 255,000 R2 (config-if)# no shut. |
| Annah | K2 (config-16) # up address 142.161 252 mino |
| | R 2 (config-if) # no what |
| | 027 |
| | R3 (config-2) # interface doopback 0 |
| | K3 (configure) # ip address 172-161 254 255 181 |
| (2) | R3 (configure) # ip address 172.16.1.254 255.25 |
| | |
| 1.604 | RICarles RIVER RIVER |
| | (contra) + contra |
| | RI(config-vonter)#area 1 Northal-link 2.2.2.2 |

| N Bafna | Gold - | |
|---------|--------|--|
| Oate: | 5.9de: | |

| | Bafna Gold — |
|--------|---|
| W(+1) | Router 2 |
| | R2 (config - router ospf 1 R2 (config - router) # area 1 verutal-link 1.1. |
| | R2 (config - noutr) # areal verutal-link 1.1. |
| 1 (gal | R2 (config vioriler) # exit. |
| charc | 12 - 18 m is somet got be a stone of will - ear |
| -/- | Finally show ip stock |
| | Router # show ip route |
| | O IA 10.0.0.0/8 [110/129] via 30.0.0.1,00:00:33 |
| | serial3/0 |
| | O IA 20.0.0/8 [110/128] via 30.0.0.1 3 D0:00:4: serial 3/0 30.0.0.0/8 is variably submetted; 2 subnets, 2 marks |
| | |
| | C 30.0. 0.0/8 is directly connected, Serial 3/0 |
| | 2 30.0.0.1/32 is directly connected, Serial 3/0 |
| C | 40.0.0.0/8 is directly connected, Fast Ethernologo |
| C | 172.16.0.0/16 is directly connected, hoopbacko |
| 1 | |
| | C> Peng 10.0.0.10 |
| | linging 10.0.0.10 with 32 bytes of data: |
| R | eply from 10:0.0.10: bytes=32 time=4ms TTL=128 eply from 10.0.0.10: bytes=32 times=4ms TTL=128 eply from 10.0.0.10: bytes=32 time=8ms TTL=128 |

| | Reply from 10.0.0.10: bytes=32 time=8msTTL-7; |
|----------|--|
| -18.8.10 | Ping statistics for 10.0.0.10: Packets: Sent = 4, Recieved = 4, Fort= 0 (01/loss) Approximate around trip times in milli-seconds: Minimum = 4ms, Maximum = 8 ms, Average = 6m |
| 8:01 mn | 10 p 18 73 |
| | O.E. mark 13/0 |
| 00:00: | 1.00 14 20.00/8 [10 /128] orio 30.00/12 1 3 Mendua 110 30.0.0.0/8 is surjour subnest |
| | Buboate 2 models |
| 0/8/0 | 100 200 0 0/8 is directly connected. Les |
| 0/8/0 | Car Balle 132 is directly connected Ser |
| birth | C. 40.0.0.013 is directly commented. Fast |
| Model | TO MO 16,000/18 in directly connected has |
| | |
| | PC> Porragio Colo Colo Colo Colo Colo Colo Colo Co |
| inte | Bunging 10.0.0.10 with 32 before of the |
| - 177 2 | Reply Iron D. U. a. 10: Autes = 82 Jane - 7-m |
| = 1176 | Righty frama 18.00 0.10 = 12.05x = 32 Times = 10m |
| -JTT B | Reply from 16.0.0.0.10: higher 22 time - 800 |