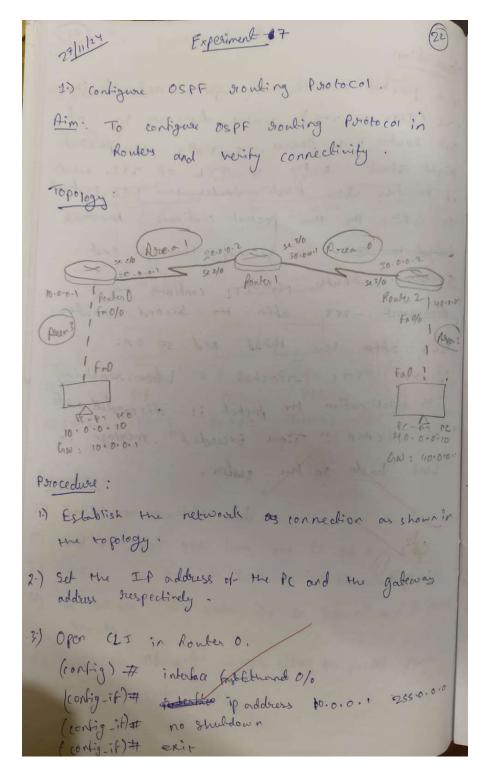
Program 8

Aim: Configure OSPF routing protocol.

Topology, **Procedure and Observation:**



```
(config) # interface serial 2/0
  (ronfig if) # ip address 20.0.0.1 255.0.0.0
  tortigit) of encapsulation ppp
   (config st) # clock state 64000.
Open CLI in Growler 1
 pr(config) ## interface serial 210
   (onlig-if) # ip address 20.0.0.2 ZSS.0.0.0
   (ontig -if) # enrapsulation PPP
   (config.if) # no shuldown
  (configure) # exit
  (config) # interface social 3/0.
   (onlig-it) # ip address 30.0.0.1 255.0.0.0
   Frontig-if) # enapsulation ppp
   (config -if) # clock rate 64000.
    ( contig if) # no shuldown
    (configuit) # exit.
Open (LI is nowher?
    & (contig) # interface Fast Ethunel 0/0
      1 (onlig-if) # ipaddruss 40.0.0.1 255.0.0.0
     (config-if) # no shuldown
      (config it) the exit
```

```
(config)# interface serial 3/0
    (config.if) #1 ip address 30.0.0.2 255.0.0.0
    I config - If you encapsulation PPP
    I confir to shelt down
    (config-it) # exit.
4) Enable ip souling by configuring ospf souling
    Parotocol.
  In Router RO
  (contige) # nowler ospf 1
  ( config - souter) # vonter - id 1.1.1.1
           # metwork 10.0.0.0 0.255.255.255 areas
           # network 20.0.0.0 0.255.255 about
  In Rowber RI
   (config) # souter expf 1
  (cortig- router) # router - id 313.13.13
             # network 30.0.0.0 0.255. 255.250 aw
             H exil.
5.) e heck the wouling table.
     Rower # show ip vioube
     you can see the code o which stands
     too the OSPF connection
```

There must be one optichace up to keep ospers process up. so it better to configure loop back address to growler. RO (contig) # intentace coopbacko (config if) # isso ip add 172.16.1.252. # no shit down. RI (config)# interface loop back o Montig.if) # ip add 172-16.1.263 255.255.00 # no shelown. R2 (conlig) # interface coop back 0. [config.it] # ip add 172.16.1.259 255.255.0.0 # no shutdown 6.) Check Routing table of R3. you can see une code o hor now, 7) to Create visual link between R1 and R2. Al (config) # souler ospot 1 (phig-douter) # ara 1 violed - 1:nk 2. 2.2.2 R2 (config) 7 gouter ospf 1 [config-trouber] = area : nintual - link 1.1.1.1 H area O nistral-link 3.3.3.3

R3 (config) # souler ospf 1 (config-sionelle) # aua o nivelval- ink 2.2.2. 2.) Check connetinity between host 10.0.0. to 40.0.0.10. Observation. After config the ospf souling purchase and establishing the morteal link, the two ex noste can communicate seamlersty. Output . 600. PC > Ping 40,0.0.10 Pinging 40:0:0:10 with 32 bytes of dala. Refly brom 40.0.0.10 byte = 32 Fine = 9ms Tiles (4 times) Ping statistics for Packets sent = 4 Received = 3 lost =1

Screen Shots:

