LAB 7

EXP 6

LAB-7

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Aim: configure OSPF routing protocol

topology:

procedure:
    configure above shown topology:
    step 1:
        configure router no 1 (
        router > enable
        Router # config terminal
        router(config) # interface fastethernet 0/
        router (conn) # ip address 10.0.0.1
                    # no shut
                    exit
    similarly configure Router 2 to PC1
    & configure router to router connection

step 2:
    for router1
    R (config) # interface serial 2/0
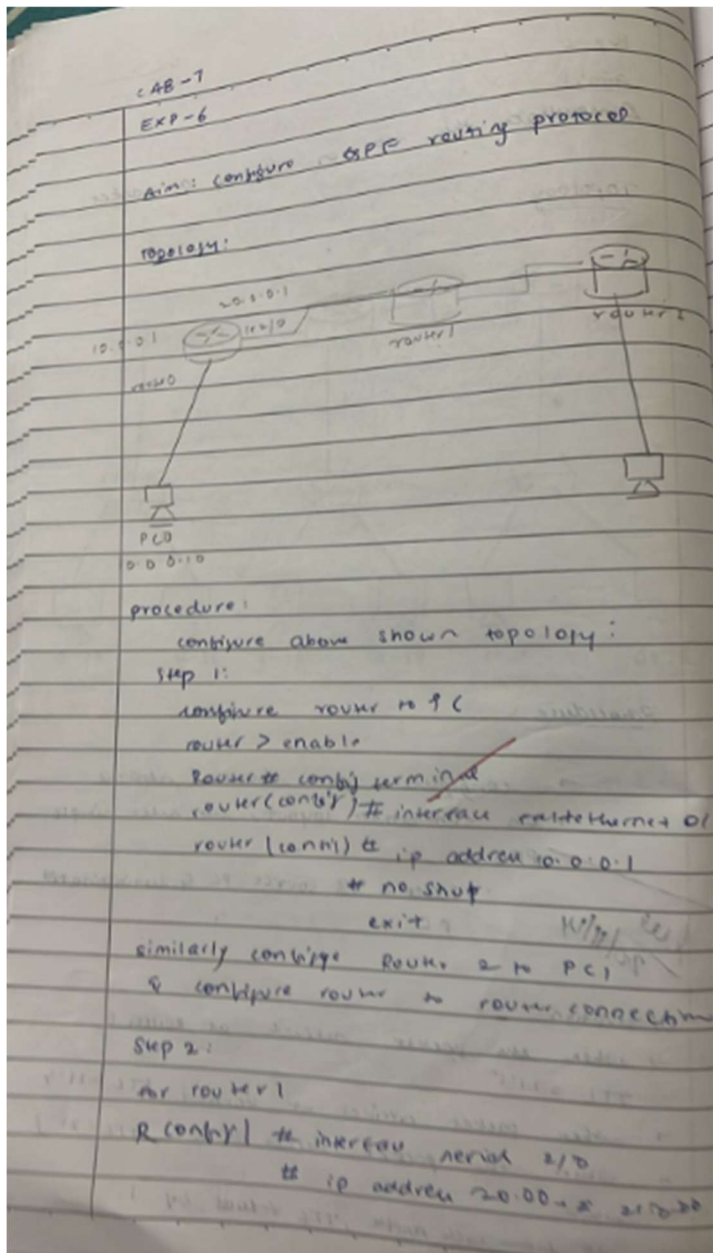   # ip address 20.00.8

no shut
    exit

Step 3:
    In router 0
    R(config) # router OSPF)
    R(config-router) # router-id 1.1.1.1
        # network 10.0.0.0 0.413.253.2
        # network 60.0.0.0 0.wir.250.2a   area 3
        # exit

    In router 1
    R(config) # router arpf 1.1.1
        # router-id 2.2.2.2
        # rout network 20.0.0.0 0.255.25
        area1
        # network 30.0.0.0 0.215.255.2
        # exit

Step 4:
    R(config-if) # interface loopback 0
        # if add 172.16.1.252 2
        # no shut

Similarly:
    R1(config-if) # ip 172.16.1.253 45
        # ip add 172.16.1.254 2

Step 5:
create virtual link between R1 & R2

in R0
R0(config) # Router OSPF)
R0(config-router) # area 1 virtual link 2.2.2

In R1
R1(config-router)* # area virtual link 1.1.1.
exit

Observation:

PC > ping 40.0.0.10
pinging 40.0.0.10 with 32 bytes A data
Reply from 40.0.10 bytes = 32 time = 6 ms T
time = 6 ms
time = 7 ms
time = 8 ms

ping statistics for 40.0.0.10:
for packets sent = 4, recieved = 4, lost = 4
approx round trip times in ms.
min = 6ms, max = 9ms, Avg = 7ms