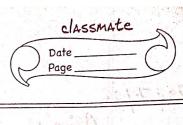
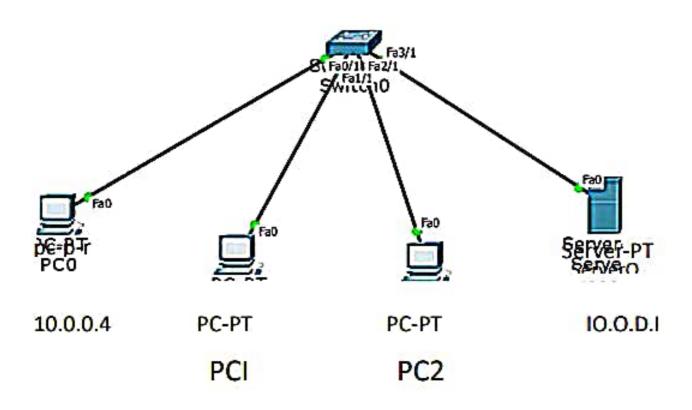
Experiment-9 13-7-23 To configure DHEP WITHIN a LAN and 20.0.0.10 Switch Switch 20.0.0.1 PCA 20.0.0.5 DHCP! Server 0.0.0.2 10.0.0 Procedure: -> Place 3 end devices and a serven under one switch in a network -) Place 2 other end devices under another swith in a different network -> Connect the swikens mough a nouter -> Configure if address for the nonter for the interface THE Services and open me services table Add two server pools with respective gature and stanking ip address 10.0.0.10.

open router CLI and open interface to which the server is not corrected and type the following command



if helper-address 10.0-0.10
where 10.0.0.10 is the state ip address
of the series of the server open each device and configure ip address. Output ping 20.0.0.2 Reguest timest out Reply from 20.0.0.2 by tes = 32
Reply from 20.0.0.2 by tes = 32
Reply from 20.0.0.2 by tes = 32 Himl<1ms TTL=127 Eime < Imy TTL = 12 F Himexims TTL=127 Ping statistics for 20.0.0.2

Packet sent = 4, Received = 3, lost=1 (251. Loss) Approxima le round trip nines in milliserands. Minimum = 0 ms Maximum = 27ms, Average=9ms Each end device get ip address from the server Message is pinged from a device in one network It can be seen that the end devices get the ip address from configured start ip address pool HCP config: gateway start if 20.0.0.1 Server Pool 20.0.0.10 \$10.0.0.2 serverpool



```
20.0.0.20 2SS. 0.0 Router (config—if)
*no shut

INK-5-CHANGED:Interface Serial2/0, changed state to down
Router (config—if) *exit
Router (config) interface serial 3/0
Router (config—if) 'ip address 30.0.0.10 2SS.0.0.0
Router (config—if) shut

'LINK-S-CHANGED: interface serial3/0, changed state to down
Router (config—if) 'exit
Router (config) *
*LINK-5-CHANGED:Interface Sezial2/0, changed state to up
*LINEPROTO-S-ÜPDOWN: protocol on Interface soria22/0, Changed State to up
```

Router (config-if) 'ip address

```
outer (config-if)#
          LINK-S-CHANGED: Interface serial2/O, changed state to
          up
          LINEPROTO-S-UPDOWN: Line protocol on Interface serial2/O, changed
          state to up
          louter (config) *interface fastethernetO/O
          uter(config-if)
                                 address 40.0.0.10 255.0.0.0
          uter(config-if)
                                 shut
                             Interface FastEthernetO/O, changed
                             state to up
outer(config-if) /
                                    Line protocol on Interface FastEthernetO/O,
LINK-5-CHANGED: Int
                                                               changed state to up
LINEPROTO-5-UPDOWN:
outer (conflig) ishow ip zoute
            Invalid input detected at
          Router (config) *exit
               I: Configured from console by
               console show ip route
SYS-5-CONFIG
               Zodes: C - connected, S - static, I - IGRP, R -
                  RIP, M - mobile, B - BGP D -EIGRP, EX - EIGRP
                  external, O - OSPF, IA - OSPF inter area
                  N1- OSPF NSSA external type 1, N2 - OSPF NSSA external
                  type 2 El - OSPF external type 1, 22 - OSPF external type 2, E - EGP i - IS-IS, Ll - IS-IS level-I, 12 - IS-IS level-2, ia - IS-IS inter area
                  * - candidate default, U - per-user static
                  route, o - ODR P -periodic downloaded static
                  route
          Gateway of last resort is not set
                30.0.0.0/8 is directly
          connected, Serial2/0 c
           .0.0/8 is directly connected, Fa s
          tE thernet O/ O Router i
```

<it

outer#

IP Configuration
O DHCP O Static

DHCP request

successful.

IP Configuratio	n X
IP Address	20.0.0.4
Subnet Mask	255.0.o.o
Default Gatew	/ay
20.0.0.20 DN	IS Server
0.0.0.0	
IPv6 Configur	ation
O DHCP O Aut	o Config O Static
IPv6 _	//
Address	FE80::2E0:F7FF:FE6B:D733
Link Local Add	ress
IPv6 Gateway	
IPv6 DNS Ser	ver

pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2 : bytes=32 time=lms TTL=127 Reply from 20.0.0.2 : bytes=32 time—Oms TTL=127 Reply from 20.0.0.2 : bytes=32 time—Oms TTL-=127 Reply from 20.0.0.2 : bytes=32 time—Oms TTL-=127 Reply from 20.0.0.2 : bytes-32 time—Oms

Ping statistics for 20.0.0.2:

Packets: Sent - - 4, Received = 4, Lost = 0 loss), Approximate round trip times in milliseconds:

Minimum = Oms, Maximum = Ims, Average = Oms