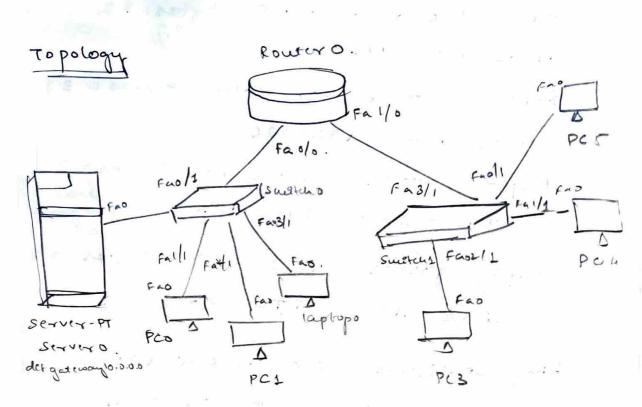
a) configure DHCP within a LAN and outside LAN

Aim: Demogratice DHCP within LAN and



Topology Pescription.

2. suiten o connected fouter o interface Fao/o

using copper straight - through cable from

2. PCO, PCI, PC2 are connected to scritch o via copper straight couble with IP address >

10.0.0.2, 10.0.0.3 and respectively.

3. server 0 9s connected to sustano with

4. P(3, P(4, P(5 are connected to switch 1 with 1P address > PCS: 20.0.0.3
PC4: 20.0.0.4

PC6: 20.0.0.5

Procedure: 1) Router: Place the router; in the middle 2) suitar: connect two suitares to Routero. and another 3 Pr's to Switch 1.

and connect it to switch 1.

a) server: Place and connect it to the suite 1 via cable (straight - trough copper) configure servero by clicking on the server set IP and address - 10.0.0.2 subnes mask - 205.010.0 Pyanes gatemany 7 10.0-0.1 incress without if # if you is the con In DHCP Services, add switch o and Configure min.

Pour Name - swotch o Start IP address - 10.0.0.0 Dejamet gatemany - 0.0.0.0 subnet mask - 255.0.0.0 In OHCP services, add switch & configure with of poolname - Saiter 1 start - IP addrew: 10.00.3 Degut gateway - 50.0.0.1 Subnet Mask -> 255.0.0.0, rset the IP configuration of all PC's PCD to PCI to DMCP due to which each PC attains it's It address, subnet mask, Defauet gateway.

exampigure Router o by willing on the solds and selecting CLI.

Assign IP addresses to the router futerfaces.

[CLI]

Router > enable

Router (config) # ? nacrface Fa010
Router (config) # ?p address 20.0.0.1
201-0-0.0

Router (config) ## "1/2 heliper-address

touter (config) It no sheet.

Router (config) # interface Fa 1/0.
Router (config) # ip address 200.0.1.
200.0.0

touter (config) # 3p heliper - address.

Rouser (config) # no shut Rouser # exet.

Observation:

The config and college are correct, you will receive successful ping replies between two. PL's.

PC> ping 10.0.0.3

Ringing 10.0.0.3 with 32 bytes of Padar

Reply from 10.0.0.3, bytes=32 time=1ms

Reply from 10.0.0.3 bytes=32, time = 0 ms TIL=12 Reply from 10.0.0. 3 bytes = 32, time = 0 ms, TTL=120 Peply from 10.0.0.3 bytes: 32 time: 2ms, TTL-120 bind exorition for 10.0.0.9: Packets: Senk = 4, Received = 4, Loss= 6 (0% loss) Approximate round trip times or nausecond: Minimum = one, Maximum = 2me, Averge = oms