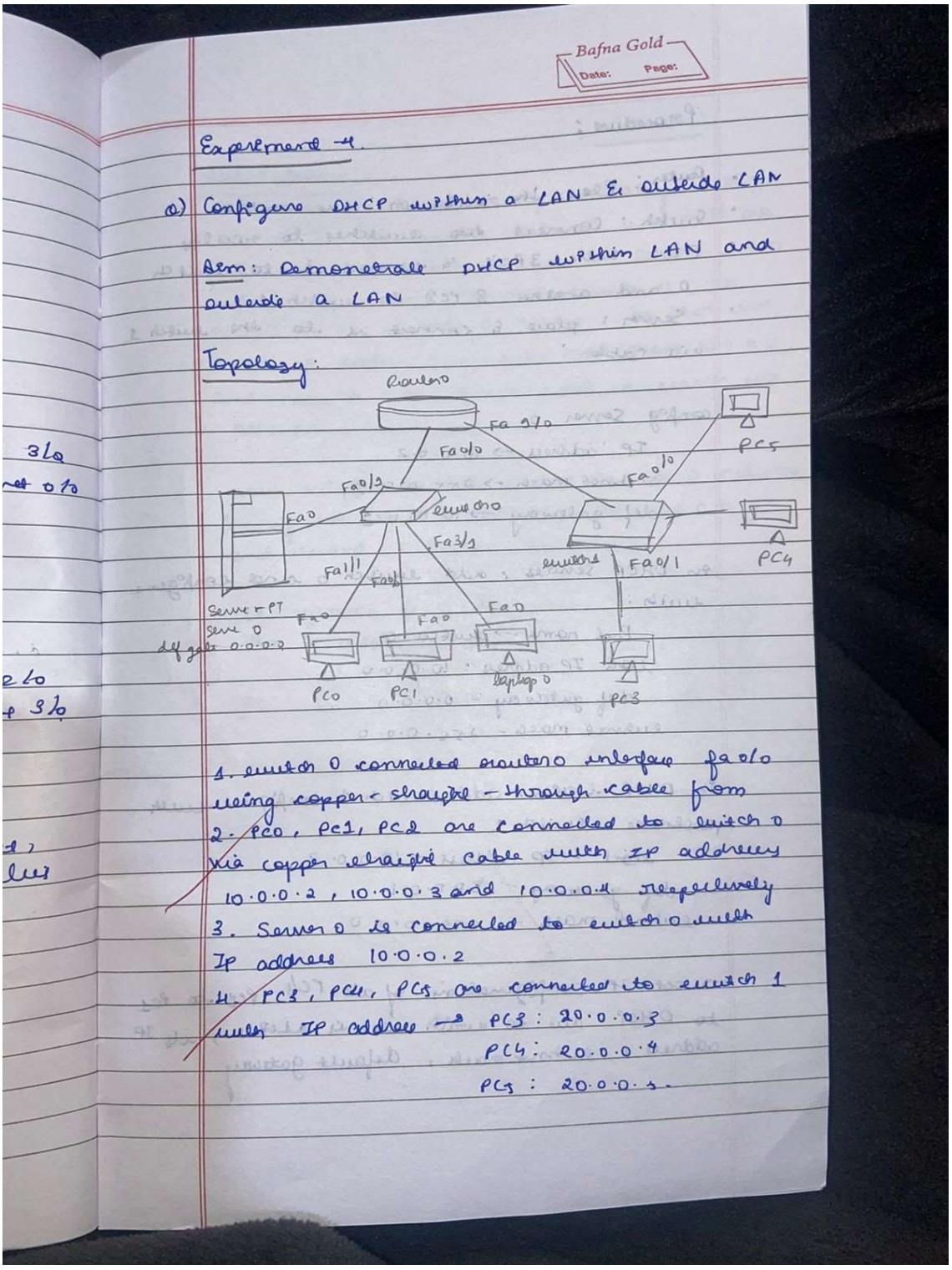
Avani.A (1BM22CS059)

EXPERIMENT-4

Aim: Configure DHCP within a LAN and outside LAN. Topology , Procedure and Observation:



Procedure :

- Router : Place the router in the middle
- Switch : Connect two switches to router
- PC : Take 3 PC's & connect it to switch 0 and another 3 PC's to switch 1.
- Server : place & connect it to the switch 1 via cable

config Server 0.

IP address → 10.0.0.2
subnet mask → 255.0.0.0
def gateway → 10.0.0.1

In DHCP services, add switch 0 and configure with :

Pool name → switch 0
start IP address : 10.0.0.0
def gateway - 0.0.0.0
subnet mask - 255.0.0.0

In DHCP services, add switch 1 configure with pool name - switch 1
start - IP address - 10.0.0.3
def gateway - 10.0.0.1
subnet mask - 255.0.0.0

→ set IP configuration of all PC's PC0 to PC9 to DHCP due to which each is address, its IP address, subnet mask, default gateway

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Observation:

When we have to dynamically assign IP address to another network we will do it using a router and a server when we configure and connect router 1 to switch 0 to switch 1 using, so that we will be using ip-helper add run 10.0.0.2, 2nd network can access pool in server of network 1.

now we go to PC's and select DHCP network 1 if we will be starting from 10.0.0.3 and second network 20.0.0.3.

all systems will be dynamically assigned the IP address.

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Screenshots: