LAB 09
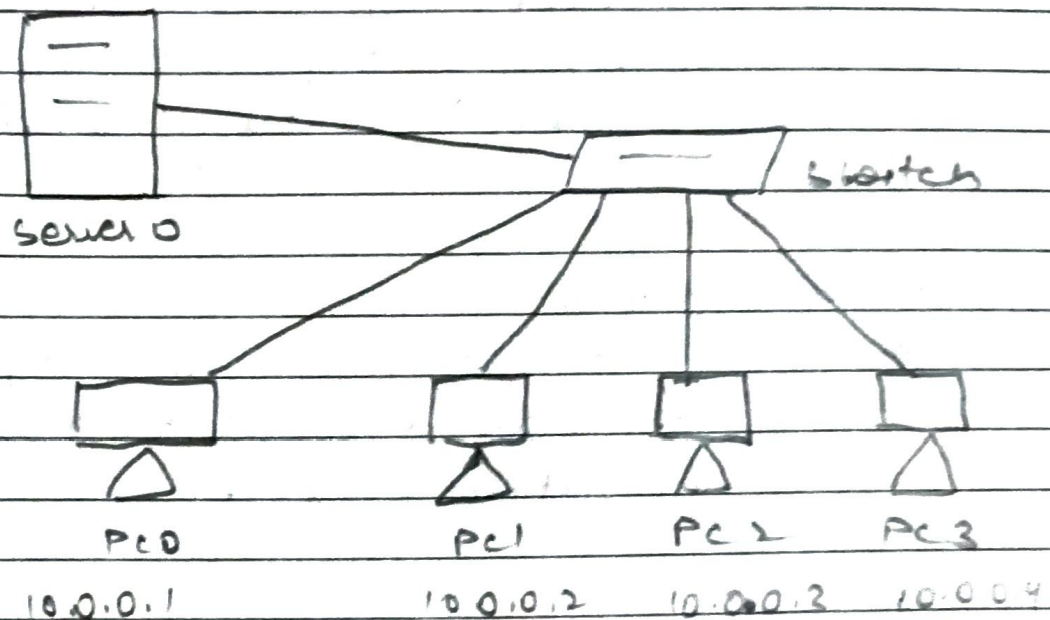
- Objective : To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP).

- Topology :

Server 0

switch

PC0   Pc1   Pc 2   PC 3

10.0.0.1   10.0.0.2   10.0.0.3   10.0.0.4

- Procedure :

i) Create a topology of 4 pcs, a server and a switch.

ii) Assign IP addresses to ~~tcd~~ all.

iii) connect them through a switch.

iv) Use the inspect tool to click on a PC to see the ARP Table.
(command in cli for same is arp-a)

4) Initially ARP table is empty.
(Also in CLI of switch, the command.
show mac address-table can be given
on every transaction to see how the
switch learns from transactions and build
the address-table.

5) Use the capture in the simulation panel
to go step by step so that the change
in ARP can be clearly noted.

- Observations:-
→ Switch as well the nodes update the
ARP Table as and when a new
communication starts.

26/12/24.