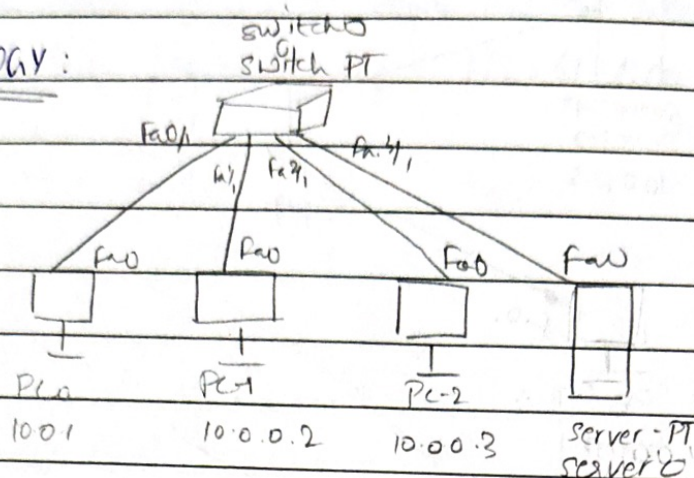


AIM: To construct simple LAN and understand the concept and operation of address Resolution Protocol (ARP)

* TOPOLOGY:



* PROCEDURE:

- Place 3 end devices, a server and a switch, connect PC, server to switch using copper straight wire.
- Use the inspect tool to click on a PC to view the ARP table
- The same can also be viewed in the command prompt by using `arp-a`
- Go to the CLI of the switch and do show mac address
- Similarly Obtain ARP table of the server and other end device
- Enter the simulation mode and click on capture by selecting PC1 and PC2 for simple PDU's.

* OBSERVATION:

- Initially the ARP tables of all end devices are observed to be empty
- The MAC address table is also formed to be empty
- When the 'capture' button is found, it is found that the ARP table is updated in PC2 with the address of PC1
- Once the acknowledgment is obtained the ARP table of PC1 is updated with the IP address of PC2 (10.0.0.3)
- The event list in the simulation panel shows the corresponding protocol used during the communication.