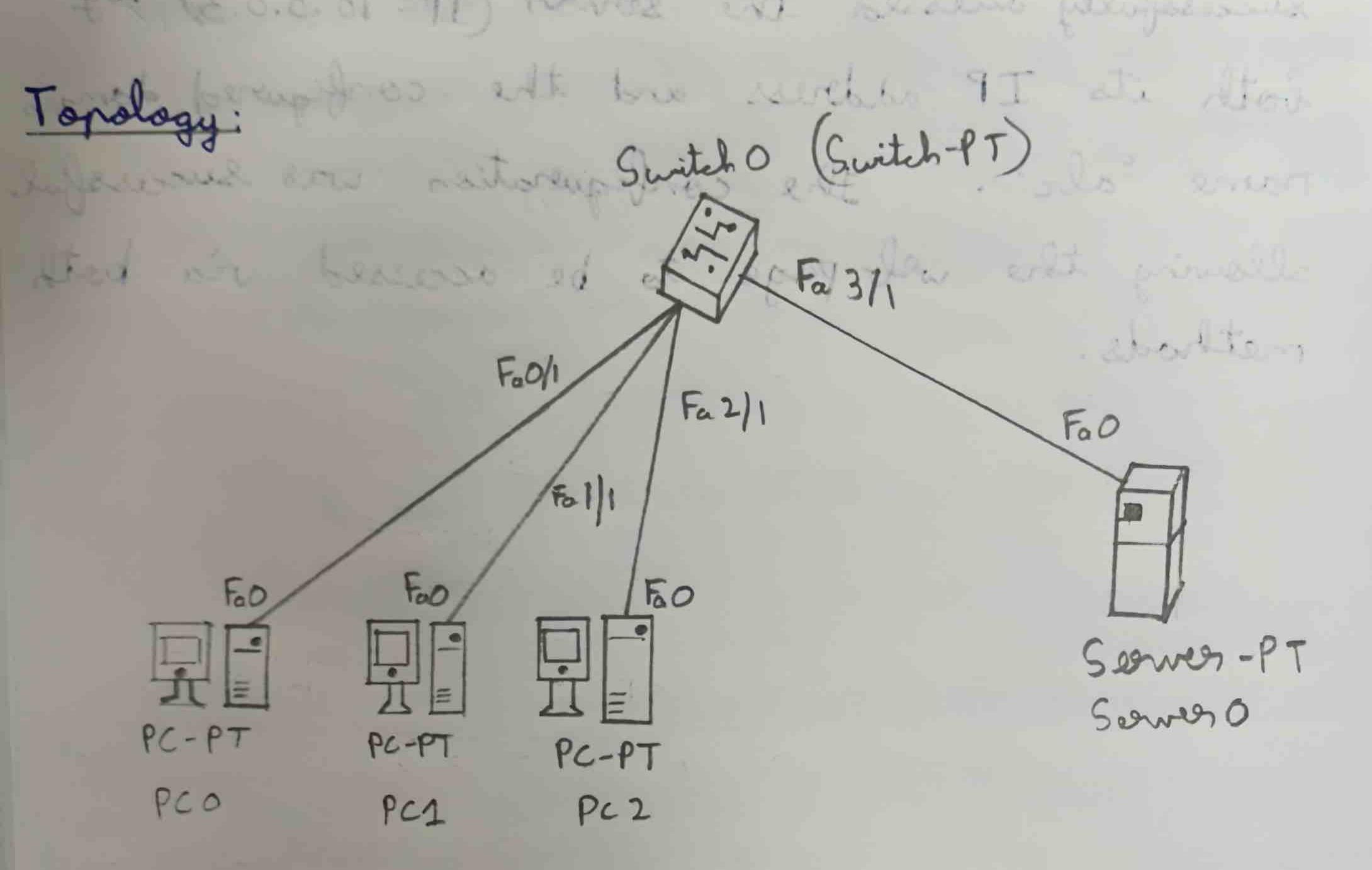
Exp9: To construct simple LAN and understand the concept and operation of Address Resolution Perotocol (ARP)

Aim: Demonstrate the working of ARP from communication within a LAN



Configuration:

PCO:

IP: 10-0.0.20

Interface Foo connected to switch o

PC1:

IP: 10.0.0.30

Interface Fao connected to switcho

PC3:

IP: 10.0.0.40

Interface Fao connected to switch o

govero:

IP: 10.0.50

Interface Fao connected to switch o

switcho: Interfoce Fa0/1 connected to PCO - montowers lo Interface Fe 1/1 connected to PCI Interface Fa 2/1 connected to PC2 Interface Fa 3/1 connected to Servero Mat 98A est selded to the talk. Perocedure: 129 et 1029 mess betrouper son mos 215

1. In PCO's conting towners and prompt

PC> ore tales

No ARP entries found

2. Click the 'Q' icon in the right side menu and click PCO. ARP table with no enteries opens Do the Same for PCI and PCZ

Disingraphic sont

PC2. On 3. Send a PDU forom PCO to successful completion, ARP was called and the respective MAC addresses enteris are entered into the ARP table.

Do the same for PCO and PCI. ARP enteries for the respective devices are entered into the ARP tables.

Observation:

In this experiment the ARP tables on PCO, PCI, PCI were initially empty. After sending a PDU from PCO to PCZ, ARP was triggered and the corresponding MAC addresses were added to the ARP table. orepeated from PCO to PCI oresulting The same was in successful I population of ARP tables with the appropriate MAC addresses.

