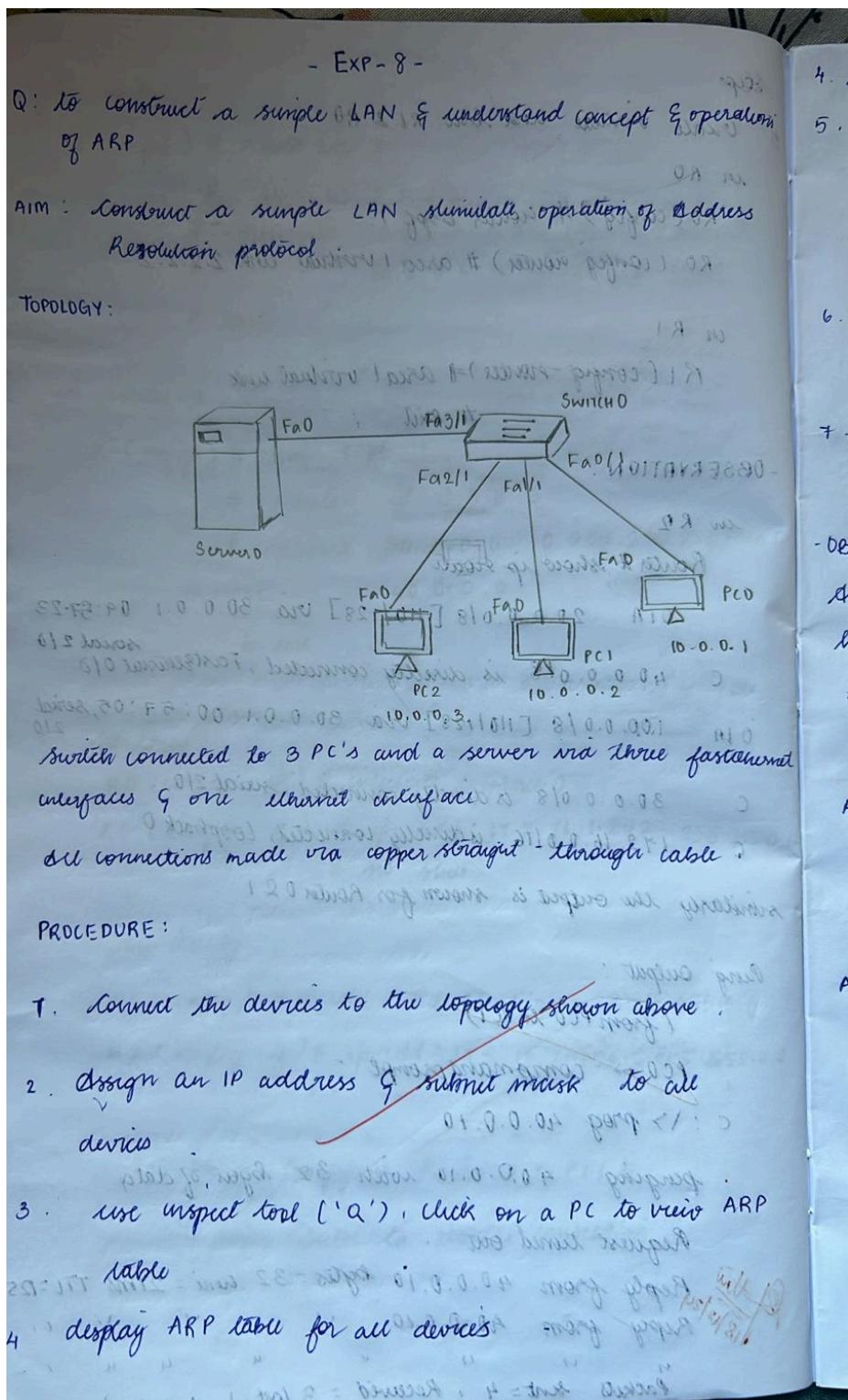


## EXP-8

### OBSERVATION



4. Initially ARP is empty of for all
5. in the CLI of the switch:  
show mac address-table  
is given on every transaction to see how the switch learns from transitions & build the address table
6. use capture button in the simulation panel, go step by step so that changes in ARP is noted
7. Observe the switch as well as nodes update the ARP table when new communication starts.

#### - OBSERVATION -

As the message travels from one source host to its destination host the ARP table of all devices get updated.  
 ARP maps an IP address to a mac address.  
 It ensures communication within a local network.

ARP table for PC0 (source):

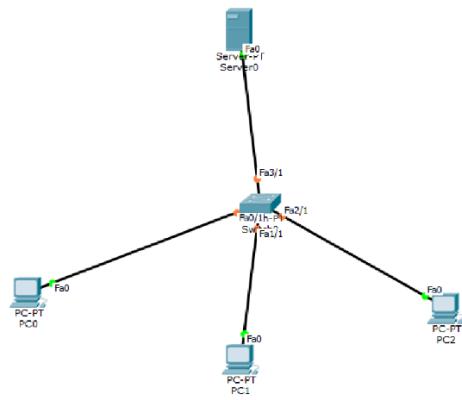
IP address	hardware address	interface
10.0.0.3	00:00:2F:29:2C:B8	FastEthernet0

ARP table for PC2 (destination):

IP address	hardware address	interface
10.0.0.1	00:00:03:02:96:0B	FastEthernet0

QF this  
03/01/25

## TOPOLOGY



## OUTPUT

