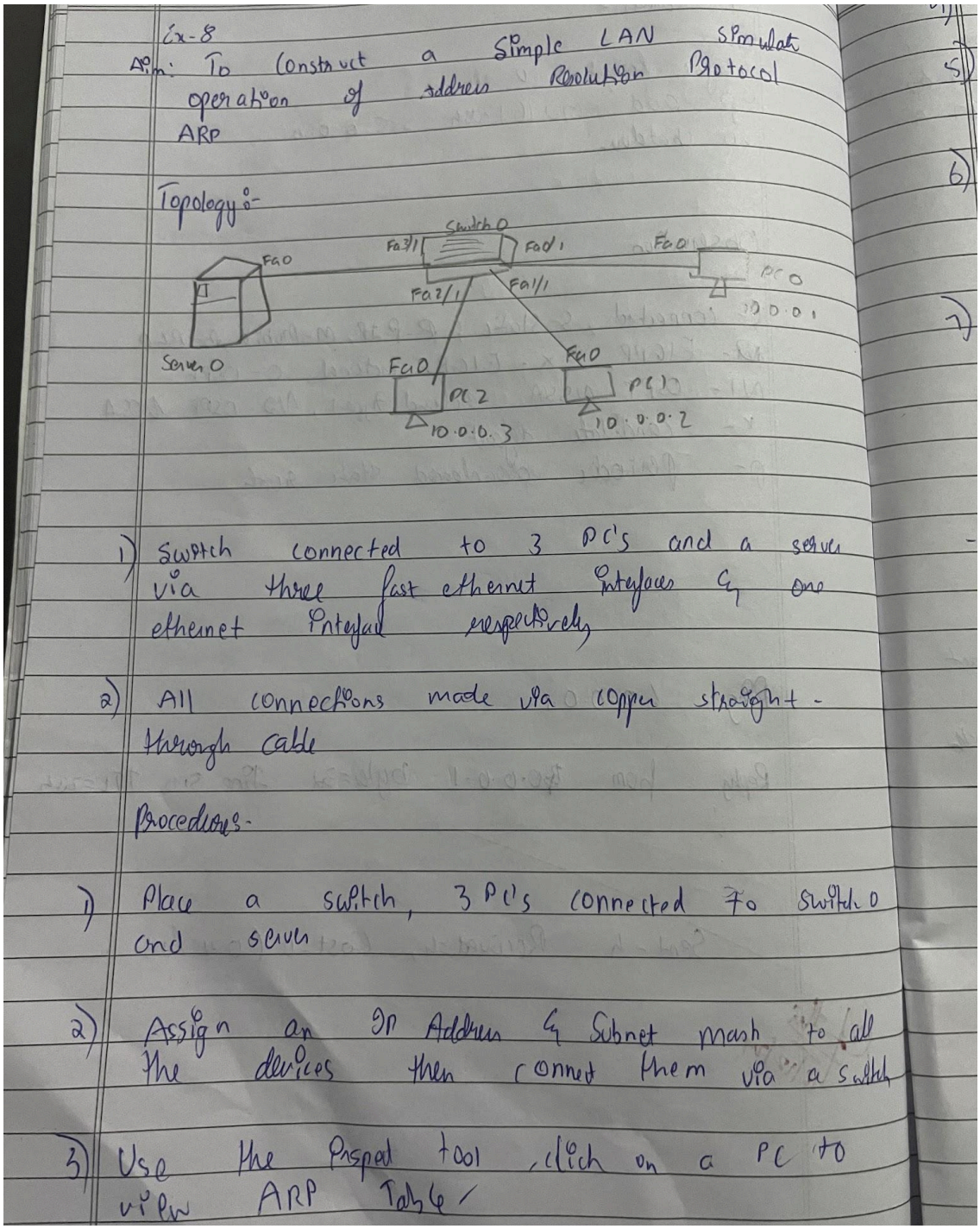
Program 10

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

Topology , Procedure and Observation:



MY PAGES
Date __/__/__

4) Display ARP Table

5) In CLI of switch
- show mac address

6) Use captive button in the simulation panel to go step by step so that there are changes in ARP

7) Observe switch as well as node update in the ARP Table

Observation.

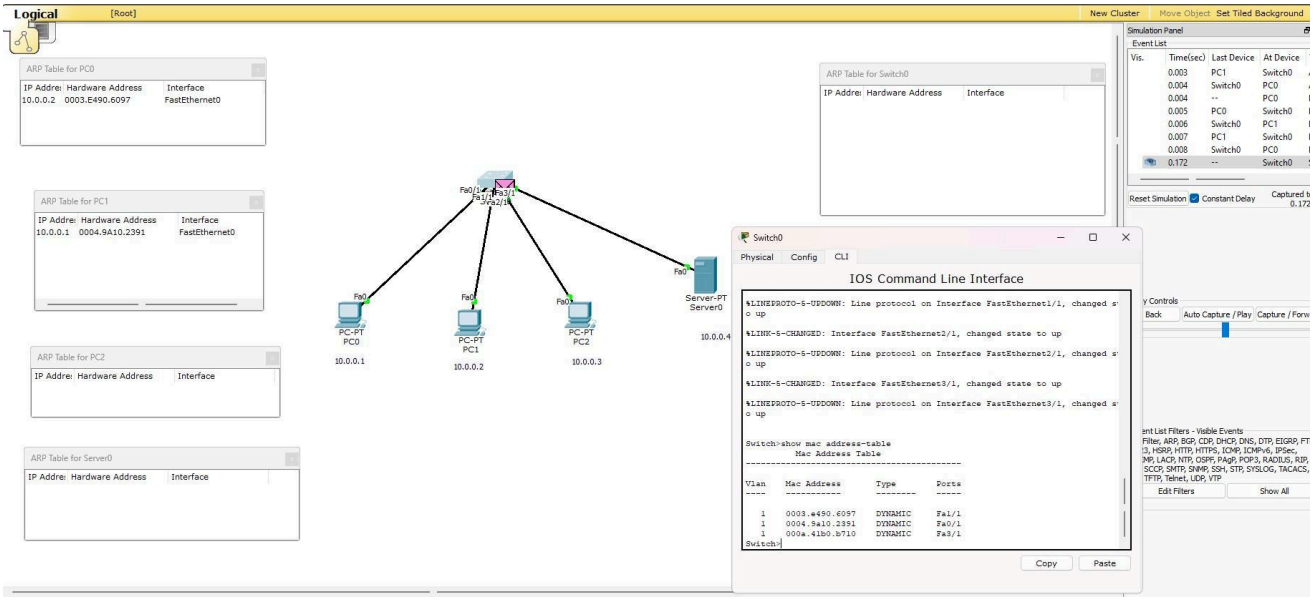
- As the message travels from one source host to its destination host the ARP table of all device gets updated

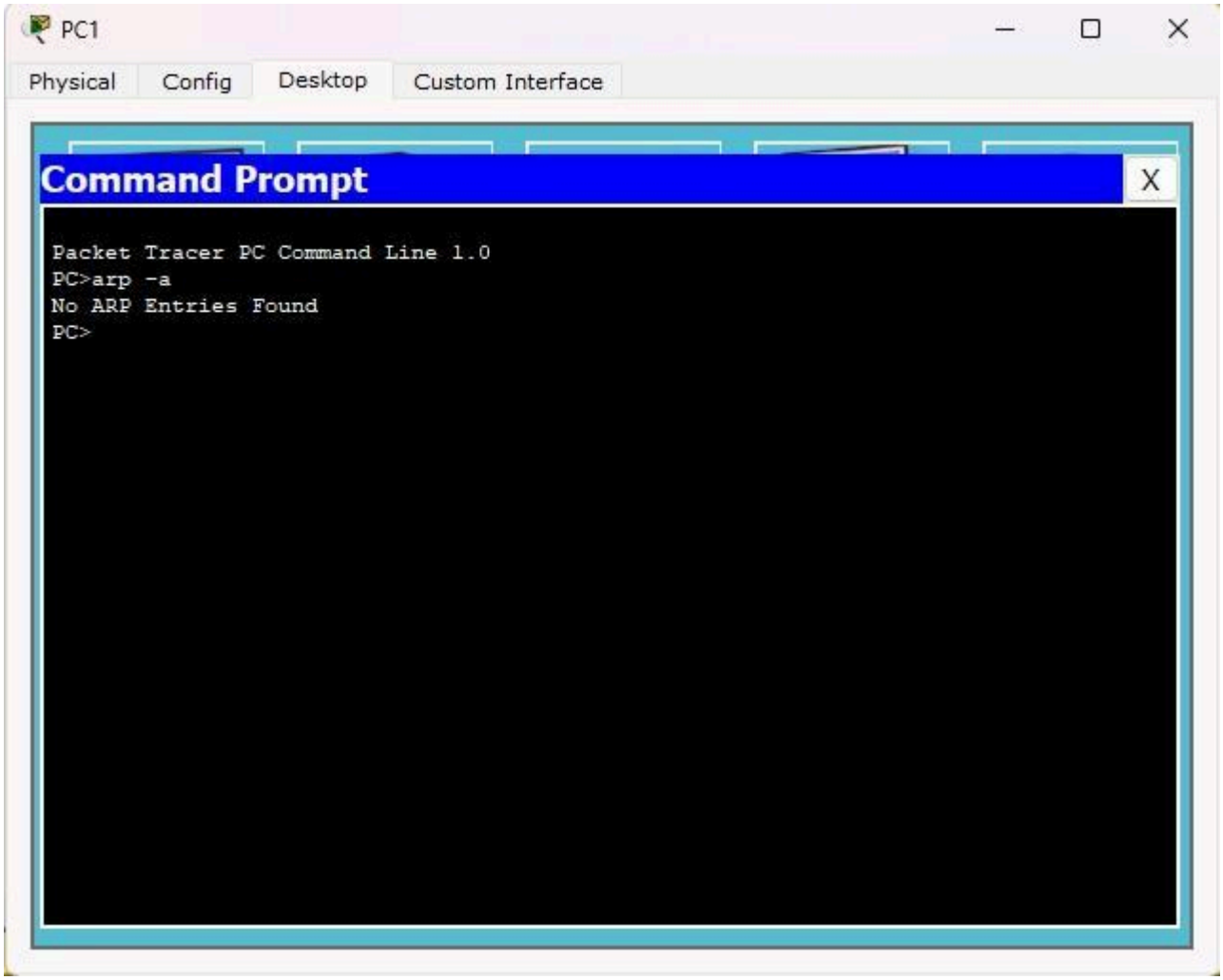
ARP maps an IP address to a MAC address to ensure communication within a local network

ARP Table for PC 0

IP	Hardware Address	Interface
10.0.0.3	0060.2F29.2CB8	FastEthernet0

Screen Shots:




PC1
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>arp -a
No ARP Entries Found
PC>