Program 10

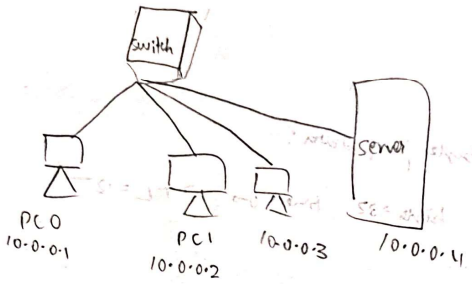
Aim: To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)

Topology , Procedure and Observation:

18/12/24 Exp 10

To construct simple LAN and understand concept of Address Resolution Protocol (ARP)

Topology :



Procedure

- Create topology of 3 PC's, a server & a switch.
- assign IP address to PC's.
- Use the inspect tool to click on a PC to see the ARP Table.
- Command in CLI for the same is arp -a.
- Initially ARP Table is empty.
- In CLI of switch, the command - show mac address-table is given on every transaction to see how the switch learns from them & build the address-table.
- capture button in simulation panel to see changes in ARP.

Observation:

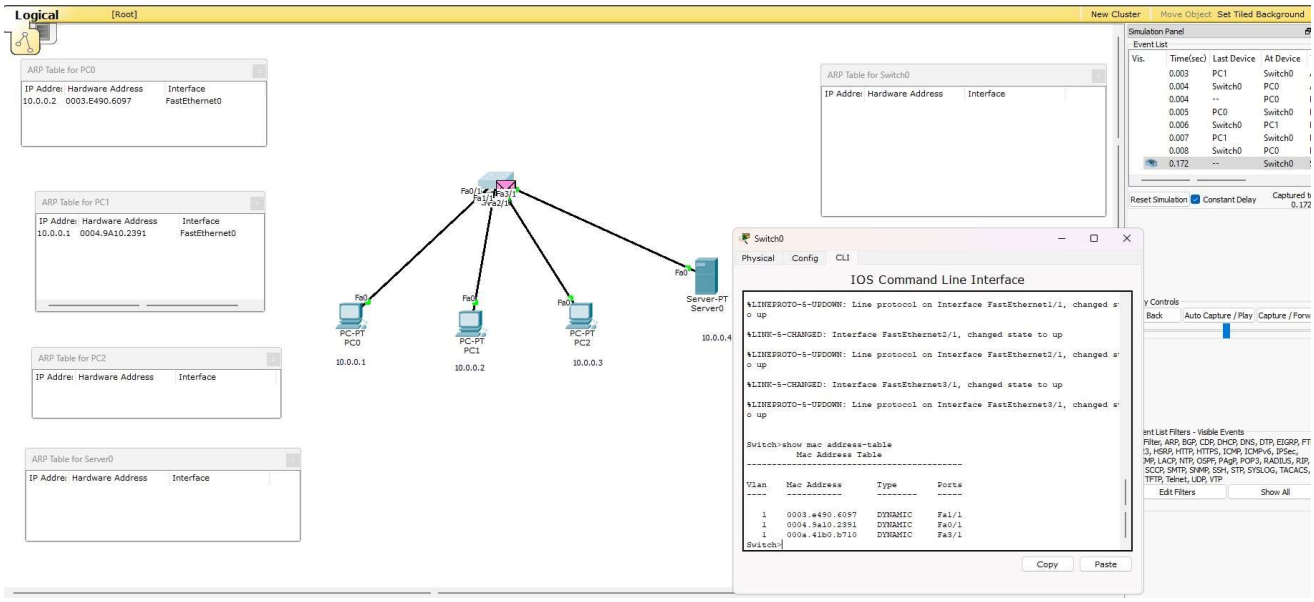
- Switch as well the router updates the ARP table as & when a new communication starts.

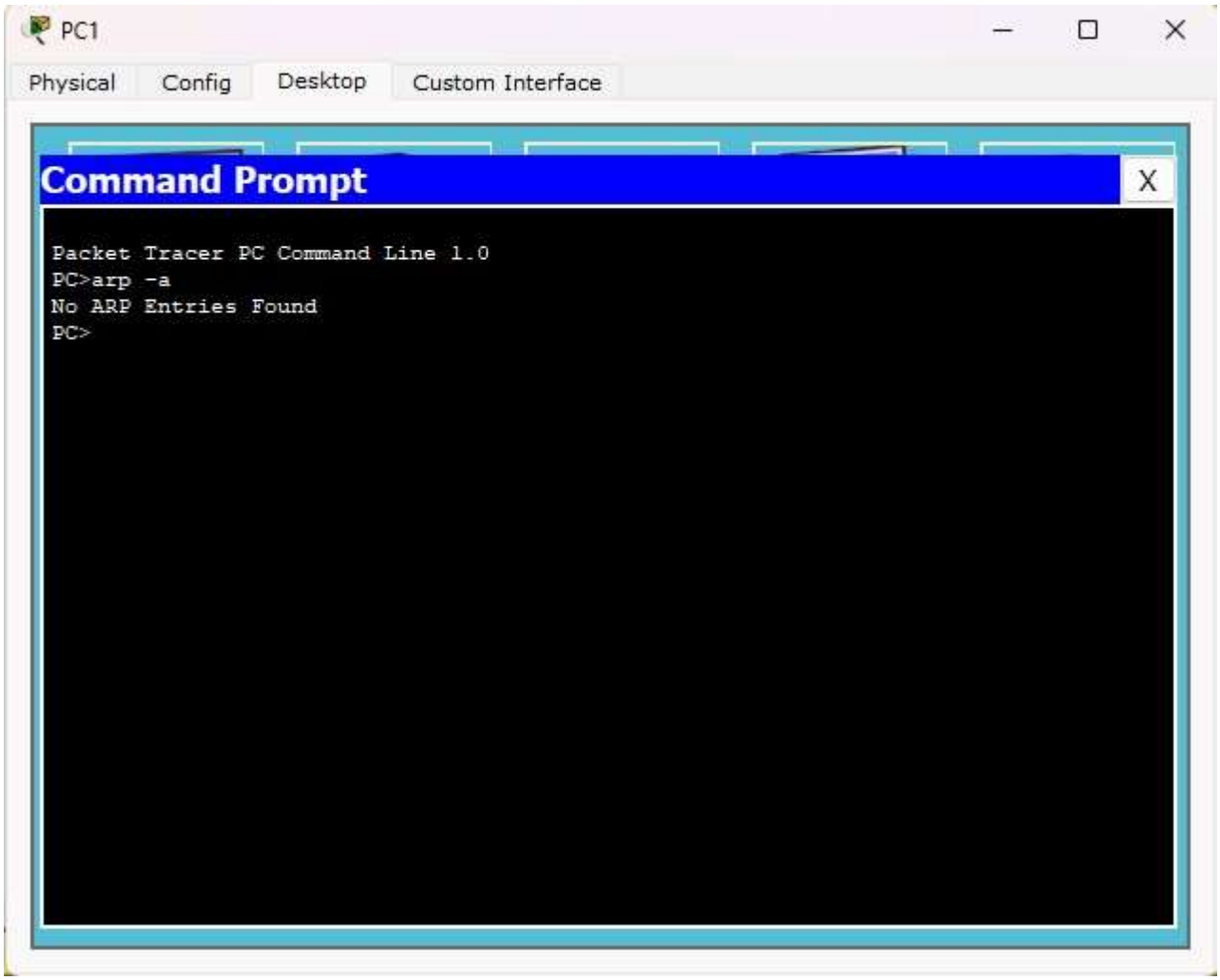
Output:

Result: show mac address

Vlan	Mac Address	Type	Ports
1	0000.0cd4.0000	DYNAMIC	Eth 1/1
1	0009.7cd2.a25a	DYNAMIC	Fa 3/1

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>