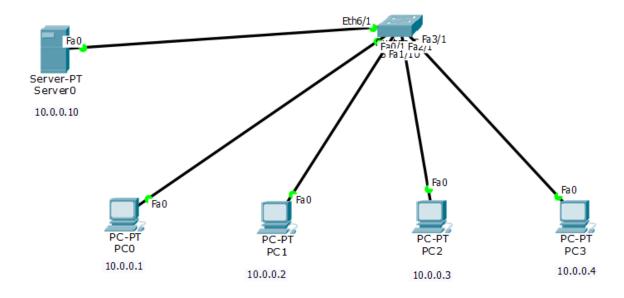
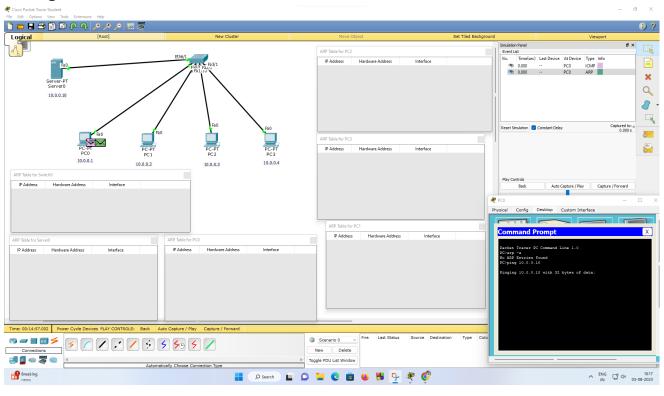
LAB 8: Aim : To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)

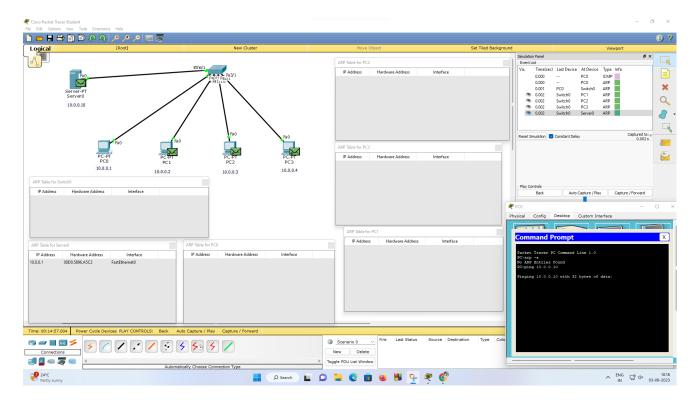
# Topology:

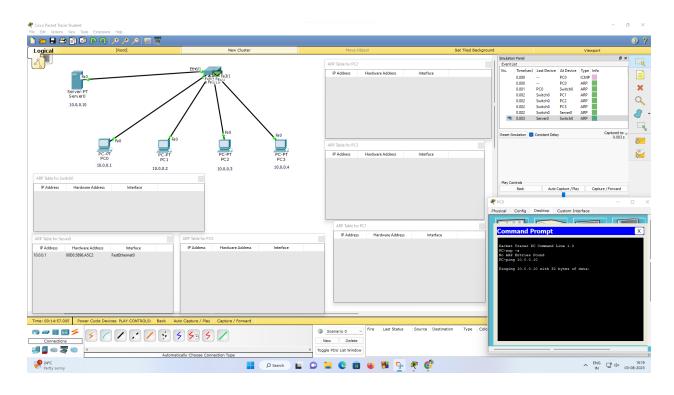


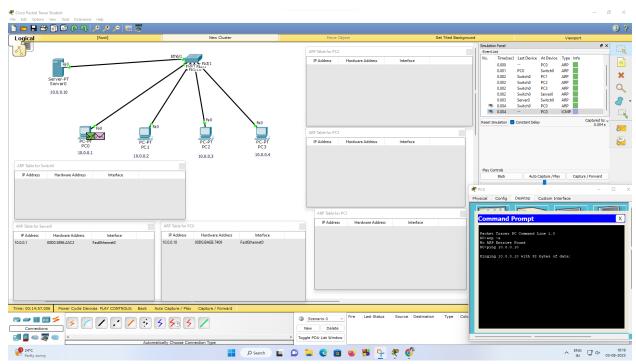
#### ARP Tables while pinging:

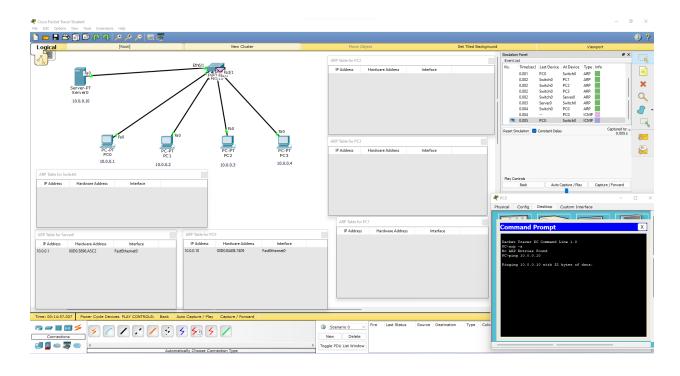
## Ping from PC0 to Server0:

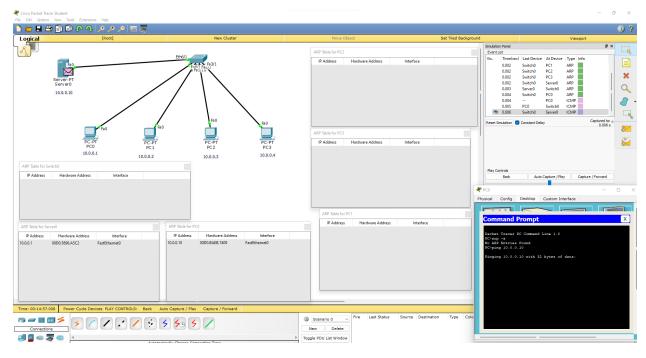


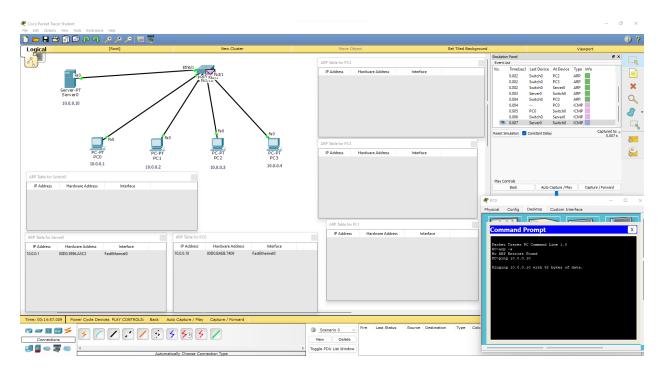


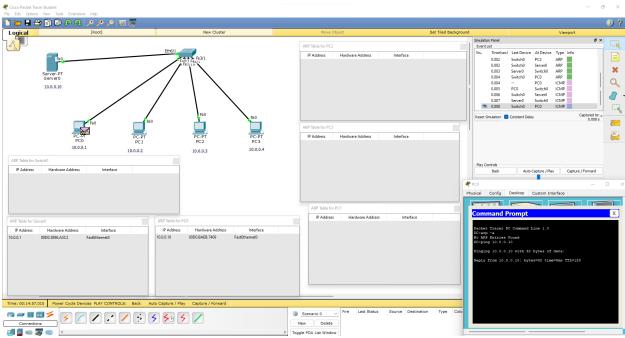


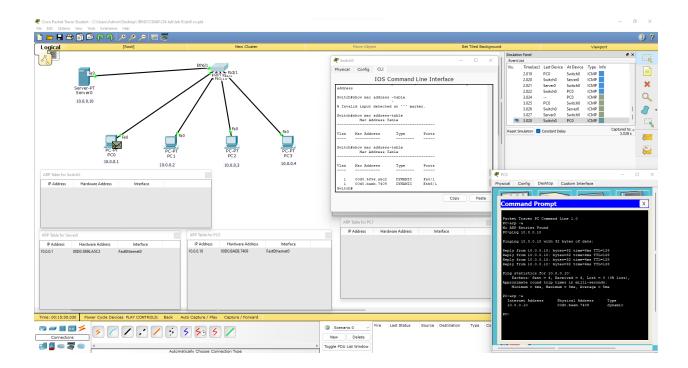




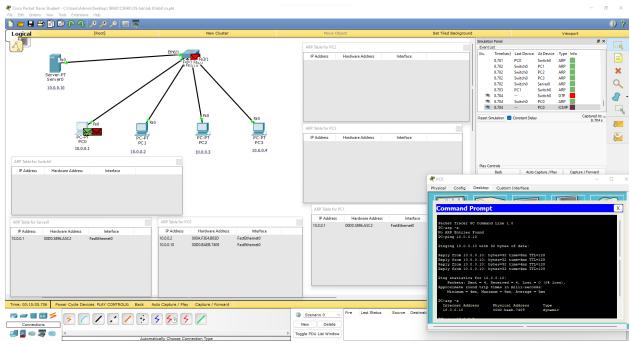


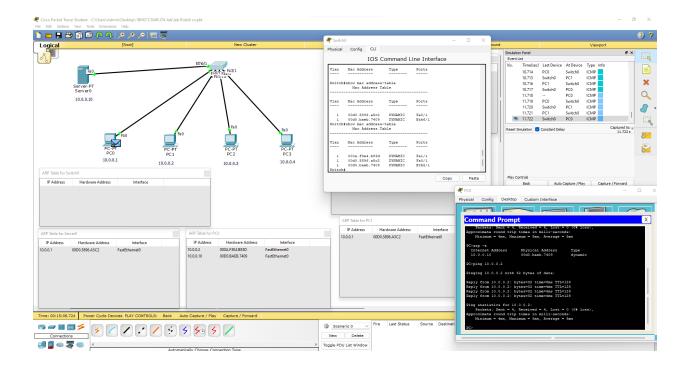




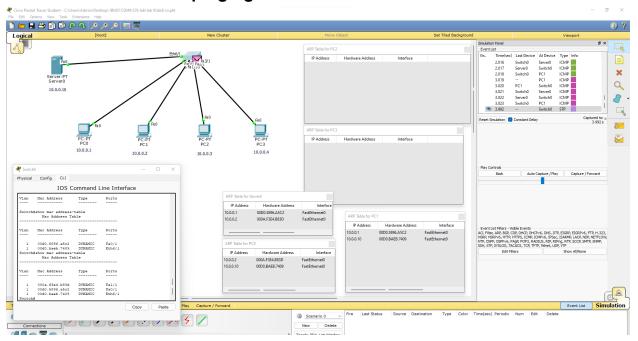


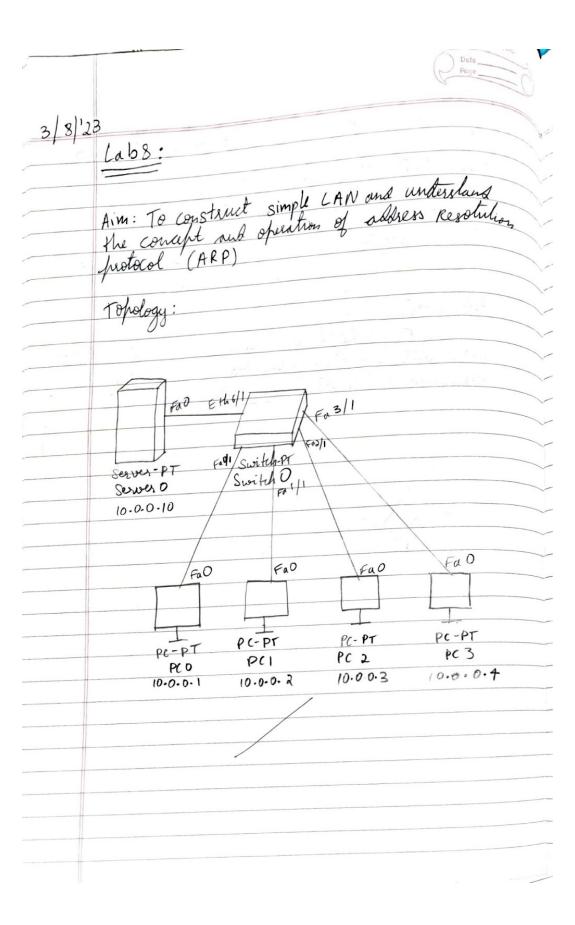
#### Ping from PC0 to PC1:

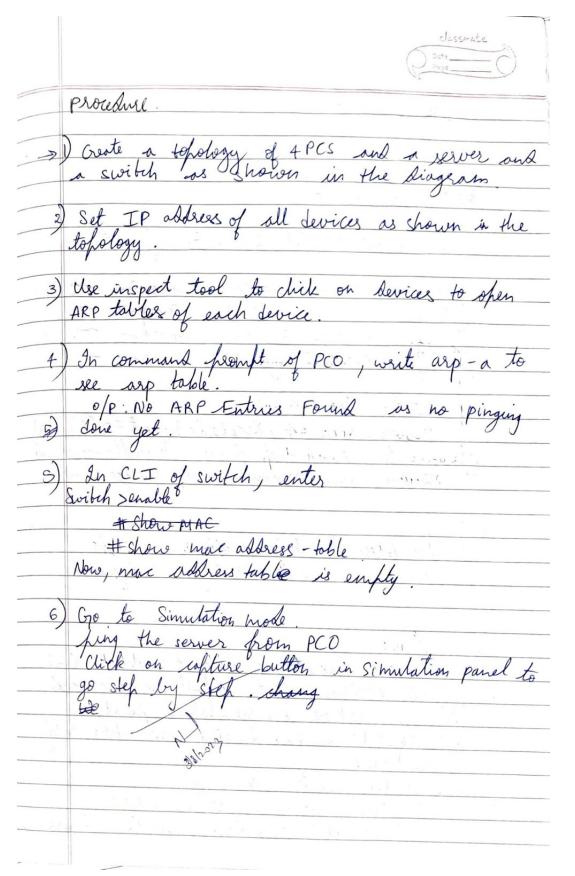




## Final ARP Tables after pinging:







€ Prog Outfut: NO ARP Entrus found PC7 ping 10.0.0.10 Pinging 10.0.0.10 with 32 bytes of Late: Refly from 10-0-0.10: bytes=32 time=8ms TTL=128 Relly from 10.0.0.0 : bytes=32 time=4ms
Reply from 10.0.0.10 : bytes=32 time=4ms
Reply from 10.0.0.10 : bytes=32 time=4ms TTZ = 128 TTL=128 Ping statistics for 10.0.0.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)

Phproximate round trip times in milli-seconds.

Minimum = 4 pms, Monimum = 8 ms, Average = 5 ms PC>arp-a Internet Address Physical Address 0000. baab. 7409 10.0.0.10 Observation: - We can see macaddress - table of switch in CLI - we can observe that, when we ping and click on raptive on simulation panel, ARP request is broadcasted and ARP reply is unicosted. -> Then ICMP packets one sent.

-> As and when capture is clicked, ARP
table is uphated accordingly for PC and server.