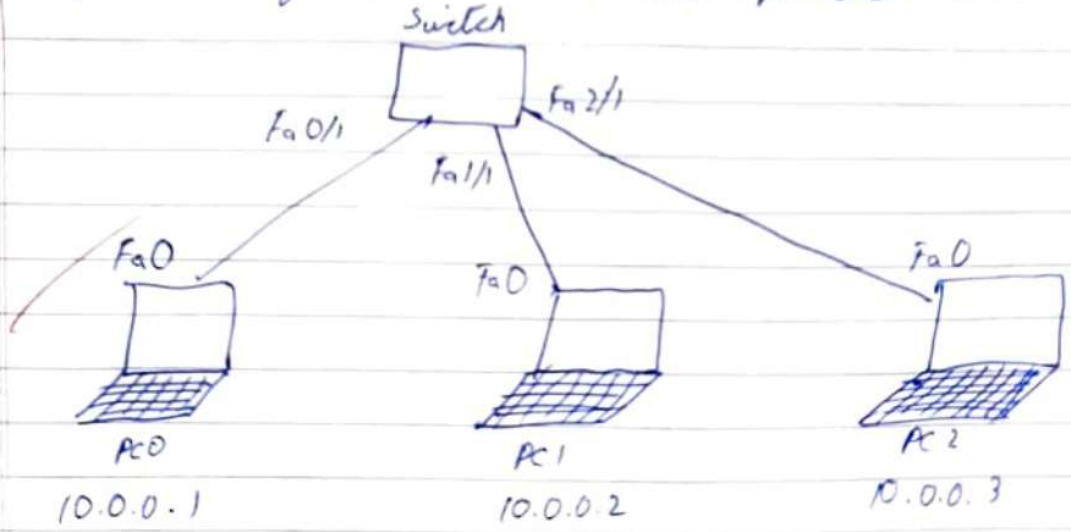
Q. Construct a LAN & understand the concept & operation of address resolution protocol.



Configure IPs of all PCs

PC0 (cmd)
- arp -a
- ping 10.0.0.2
- arp -a
- arp -d

→ Output
* arp -a
No ARP entries found
* ping 10.0.0.2
Reply from 10.0.0.2 byte = 32 time=0ms TTL=128
" " " " " " " TTL = "
" " " " " " " TTL = "
" " " " " " " TTL = "
0

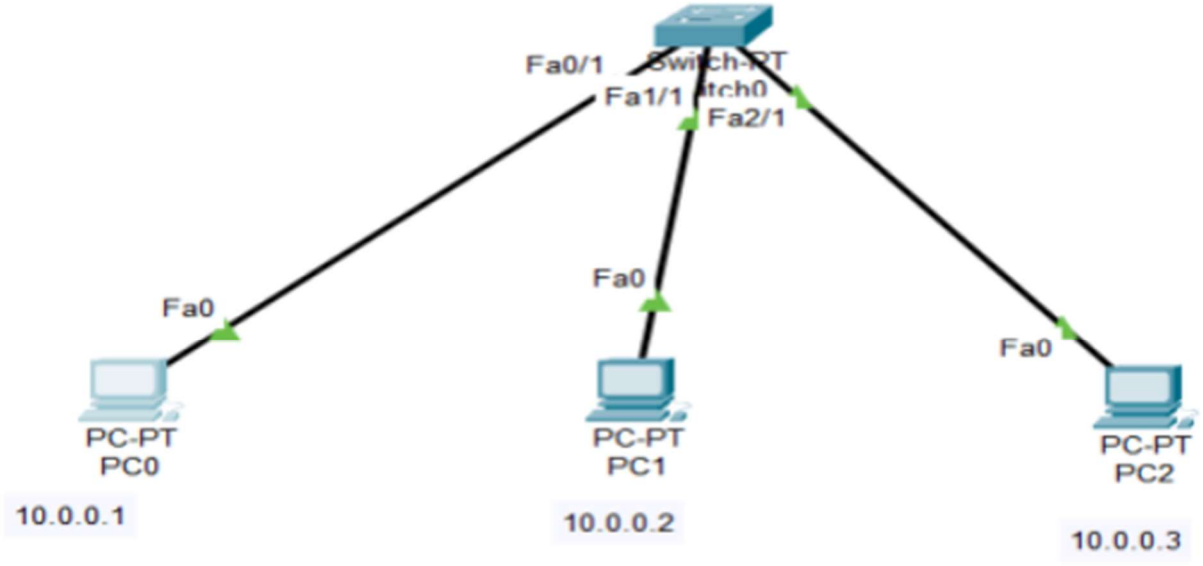
All topics not completed

* arp -a
Internet address physical address types
10.0.0.2 00.02.16[illegible].98 20 Dynamic

8/10

22/8/23

1BM21CS148



PC0

Physical Config Desktop Programming Attributes

Command Prompt

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Cisco Packet Tracer PC Command Line 1.0
C:\>arp -a
No ARP Entries Found
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
Reply from 10.0.0.2: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>arp -a
  Internet Address      Physical Address      Type
  10.0.0.2              0050.0f21.c5d2        dynamic
  10.0.0.3              00d0.d326.7e75        dynamic

C:\>
```