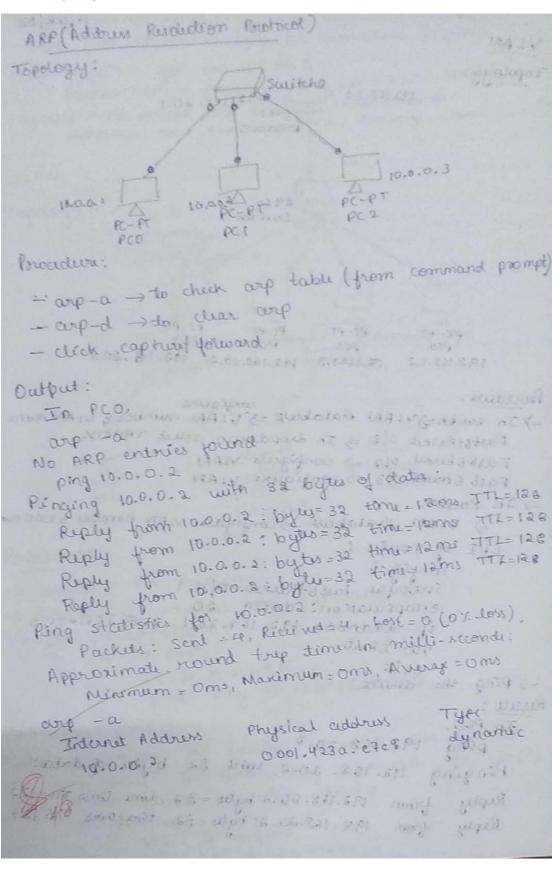
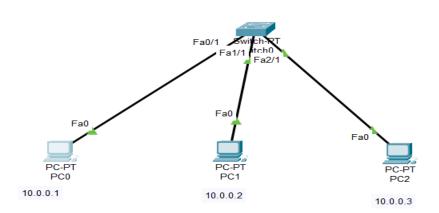
To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)



Topology:





Output:

```
PC0
                                                                                                                                                 Physical
                Config Desktop Programming
                                                            Attributes
   Command Prompt
   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<lms TTL=128 Reply from 10.0.0.2: bytes=32 time<lms TTL=128 Reply from 10.0.0.2: bytes=32 time<lms TTL=128 Reply from 10.0.0.2: bytes=32 time<lms 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<lms TTL=128 Reply from 10.0.0.3: bytes=32 time<lms TTL=128 Reply from 10.0.0.3: bytes=32 time<lms 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 = Oms, Maximum = Oms, Average = Oms
   C:\>arp -a
      Internet Address
                                        Physical Address
                                                                         Type
       10.0.0.2
                                       0050.0f21.c5d2
                                                                         dynamic
                                       00d0.d326.7e75
       10.0.0.3
                                                                         dynamic
    C:\>
```