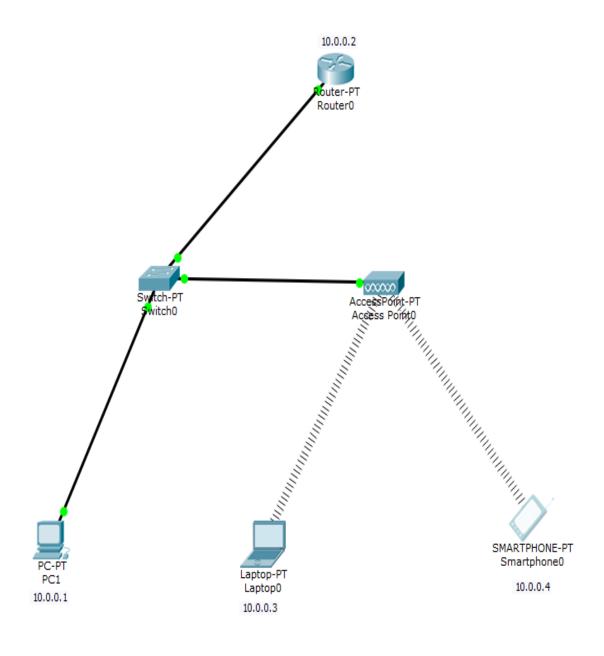
## LAB-7

# 7.1)To demonstrate communication between 2 devices using wireless LAN

Daigram:=

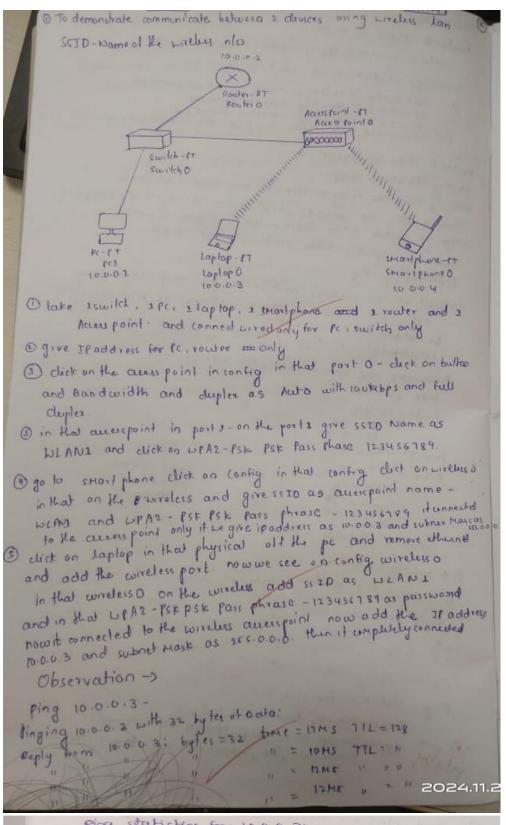


#### **OUTPUT:=**

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=25ms TTL=128
Reply from 10.0.0.1: bytes=32 time=15ms TTL=128
Reply from 10.0.0.1: bytes=32 time=10ms TTL=128
Reply from 10.0.0.1: bytes=32 time=11ms TTL=128
Ping statistics for 10.0.0.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 10ms, Maximum = 25ms, Average = 15ms
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=25ms TTL=255
Reply from 10.0.0.2: bytes=32 time=10ms TTL=255
Reply from 10.0.0.2: bytes=32 time=8ms TTL=255
Reply from 10.0.0.2: bytes=32 time=11ms TTL=255
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 8ms, Maximum = 25ms, Average = 13ms
PC>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Reply from 10.0.0.3: bytes=32 time=17ms TTL=128
Reply from 10.0.0.3: bytes=32 time=10ms TTL=128
Reply from 10.0.0.3: bytes=32 time=12ms TTL=128
Reply from 10.0.0.3: bytes=32 time=12ms 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 = 10ms, Maximum = 17ms, Average = 12ms
PC>
```

```
Packet Tracer PC Command Line 1.0
Packet Tracer PC Command Line 1.0
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=20ms TTL=128
Reply from 10.0.0.1: bytes=32 time=9ms TTL=128
Reply from 10.0.0.1: bytes=32 time=9ms TTL=128
Reply from 10.0.0.1: bytes=32 time=12ms TTL=128
Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 9ms, Maximum = 20ms, Average = 12ms
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=18ms TTL=255
Reply from 10.0.0.2: bytes=32 time=10ms TTL=255
Reply from 10.0.0.2: bytes=32 time=13ms TTL=255
Reply from 10.0.0.2: bytes=32 time=11ms TTL=255
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 18ms, Average = 13ms
PC>ping 10.0.0.4
Pinging 10.0.0.4 with 32 bytes of data:
Reply from 10.0.0.4: bytes=32 time=27ms TTL=128
Reply from 10.0.0.4: bytes=32 time=13ms TTL=128
Reply from 10.0.0.4: bytes=32 time=14ms TTL=128
Reply from 10.0.0.4: bytes=32 time=20ms TTL=128
Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 13ms, Maximum = 27ms, Average = 18ms
PC>
```

## Observation :=



ping statistics for 10.0.0.3:

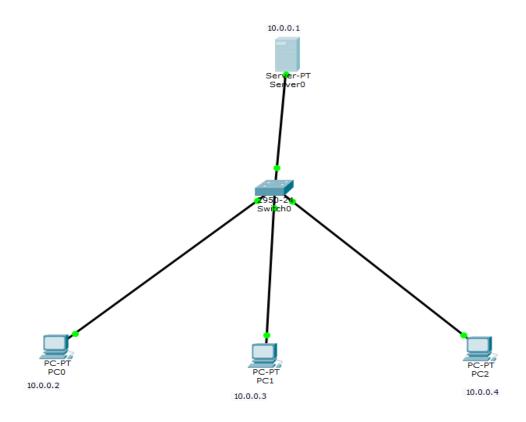
packet s cont = u, leaved=u, lost = 0 (0%1050),

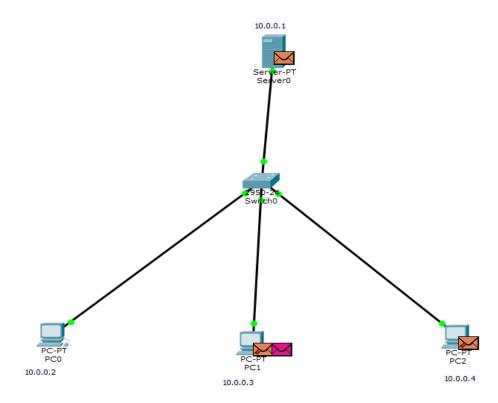
Approximate round tip times in milliseconds;

Minimum = 10Ms, Maximum = 11Ms, Average = 12M

# **7.2)** Demonstrate working of Address Resolution protocal communication with LAN

## Daigram:=





## **ARP Table:=**

ARP Table for PC0			
IP Address	Hardware Address	Interface	
10.0.0.1	0009.7C69.3C0A	FastEthernet0	

IP Address Hardware Address Interface 10.0.0.1 0009.7C69.3C0A FastEthernet0	ARP Table for PC1			
10.0.0.1 0009.7C69.3C0A FastEthernet0	IP Address	Hardware Address	Interface	
	10.0.0.1	0009.7C69.3C0A	FastEthernet0	

ARP Table for Server0			
IP Address	Hardware Address	Interface	
10.0.0.2	00D0.5880.759C 0090.21D2.380E	FastEthernet0 FastEthernet0	

## **OUTPUT of PC0=**

Packet Tracer PC Command Line 1.0

PC>ARP -A

Internet Address Physical Address Type 10.0.0.1 0009.7c69.3c0a dynamic

## **OUTPUT of PC1=**

Packet Tracer PC Command Line 1.0

PC>ARP -A

Internet Address Physical Address Type 10.0.0.1 0009.7c69.3c0a dynamic

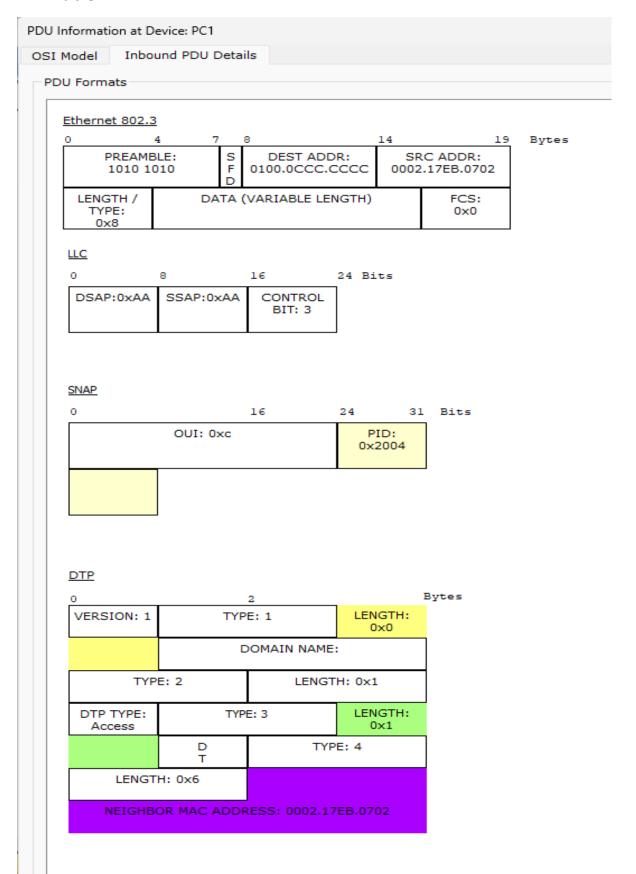
## **OUTPUT of server=**

Packet Tracer SERVER Command Line 1.0

SERVER>ARP -A

Internet Address Physical Address Type 10.0.0.2 00d0.5880.759c dynamic 10.0.0.3 0090.21d2.380e dynamic

## **ARP Table:=**



### Observation:=

```
72) AIM - demonstrate wasting of pro Adress
                                                       Resolution
      protocal to communication
                                     with LAN.
                        10.0.0.1
                           corver-PT
                             servero
                              switch - portal
                               switcho
             PD
                         PCL
           10.0.0.2
                        10.0.0.3
                                       10.0.0.4
steps take >
   Server, switch, pas connect theseall each other as chow in above
           in Desktop I paddress - 10.0.0.1 and subnel Mosk 25.000
                                             11 11 11 200.00
  Server -
                                   10 -0 -0 - 2
           in Desletop
                                                     11 11 255.0.00
                                   10.0.0.3
                                                      11 11 265-0-0-0
           in Desktop
  PCY =
                                   10.0.0.4
           in Decktop
  PC2 =
  take PDU connect from Poto Berver - click on Autocaphur
  in left side click on Q then click on Pco - then Aff table than
  Wesee -
               Hordware address
                                     Interface
   IP addres
                                     fast Ethernet o
                  0009.7009.3001
  take pou connect from pe 1 to server - click on Autocapture
  in leld side click on a then click on Pro then APP table then
   we see table as -
                                     Interface
                  HIW address
     IP address
                     00099 669-3004 tailethant 0
      10.0.61
stop a similary in server diete on a then dick on server then
      APP table then we see table as -
                     HILD address
                                           Jake for
     28 address
                      DP27 0882.0000
                                           fast Etheret O
      10.0.0.2
                                           fartellunto
                      0.09 D.2102.380 F
```

Observation click on fea on command prompt PCS APP-A IlP address HILW address 0009.7669.3009 10.0.0.1 dynamic click on PCO on command prompt -PC > PRP- A IlP address physical address Type 10.0.02 Dynamic eliction serves on command prompt Ilpaddress physical Address 10.0.0.2 0000 , 5880.75ac dynami 100.0.3 0090.21d2.380e dynamic