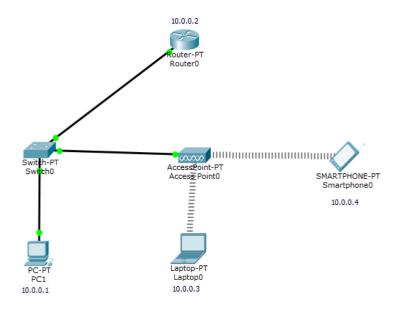
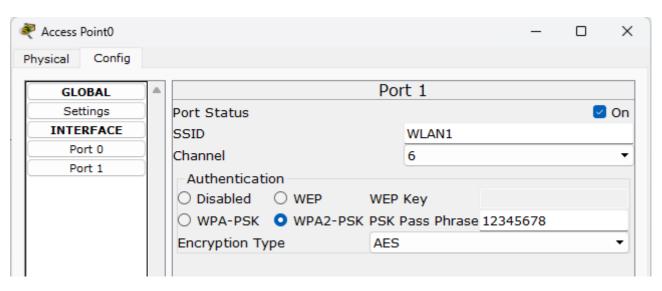
Lab-07

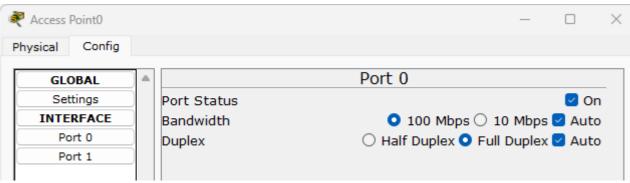
1. To demonstrate communication between two devices using a wireless LAN.

Topology:



Access Point Configuration:





Output:

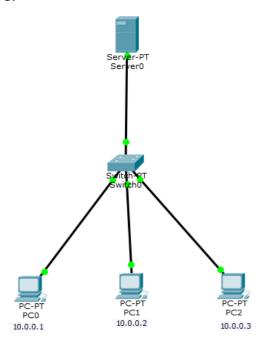
```
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=16ms TTL=128
Reply from 10.0.0.1: bytes=32 time=12ms TTL=128
Reply from 10.0.0.1: bytes=32 time=6ms TTL=128
Reply from 10.0.0.1: bytes=32 time=11ms TTL=128
Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 6ms, Maximum = 16ms, Average = 11ms
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=7ms 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
Reply from 10.0.0.2: bytes=32 time=10ms 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 = 7ms, Maximum = 11ms, Average = 9ms
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=13ms TTL=128
Reply from 10.0.0.3: bytes=32 time=15ms TTL=128
Reply from 10.0.0.3: bytes=32 time=12ms TTL=128
Reply from 10.0.0.3: bytes=32 time=17ms 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 = 12ms, Maximum = 17ms, Average = 14ms
```

Observation: 26/11/24 Lab -08 Aim: To demonstrate communication blu two devices using a wireless LAN D(-1 Configuration Steps: 1. Select a switch, Router, PC & Acress point and connect them. And also select a smartphone & a Laptop. 2. Configure IP address for Router, PC & Laptop. PC -> 10.0.0.1) 3P 10.0.0.2) Gateway Router -> 10.0.0.2 Laptop -> 10.0.0.3 10-0.0.2 3. Go to Access Point -> Config & Iten Select Port O., Make Sure that Bandwidth & Duplex to Auto. 4. In Part , Give SSID as INLANI & Choose authentication as WPA2-PSK, & give password 5. Go to Smartphone, select wirelesso & config SSID, Authentication & IP address (10.00.4) 6. Ping it from smartphone to PCEp Router. Go to Laptop -> Phys?cal -> Power off -> change of to left side -> Power on

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Pio) It items	
001	put :	
0-1		
PC.	7 ping 10.0.0.1	
Ding	jing 10.0.0.1 with 32 bytes i	of data:
Real	y from 10.0.0.1: bytes = 32 +time	= 16ms TTL= 12:
-		9.111-0
-		6ms -
-		HIMS - L
Dina	Statistics for 10.0.0.1:	
	ackits: Sent = 4 , Recieved = 4 , Los	st=0 (0% loss)
	eximate hound trip times in m	
	Primon = 6 ms, Maximon = 16ms, A	
	ping 10.0.0.2:	3
	ing 10.0.0.0 with 30 bytex	of data:
~	from 10.0.0 2: bytes 30 +ime	
1		8ms - L
		tims -L
		ioms —
. 9		TOTAL S
ping	Statistics for 10.0.0.9:	
P	ackets: Sent=4, Recieved= 4	, Lost = 0 (0%)
Appro	eximate round trip in milli	- Seconds:
M	mimum= 7ms, Maximum= 110	ns. Average = am
		0
DIT	ping 10.0.03:	
1 10 10		
	ing 10.0.0.3 with sa bu	las 56 1 + .

2. Demonstrate the working of ARP for communication with a LAN.

Topology:



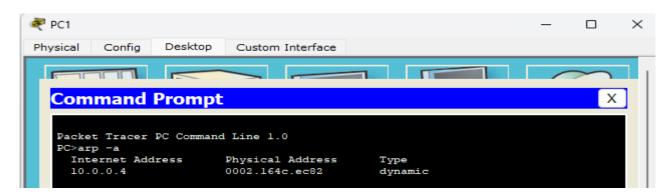
Configuration:

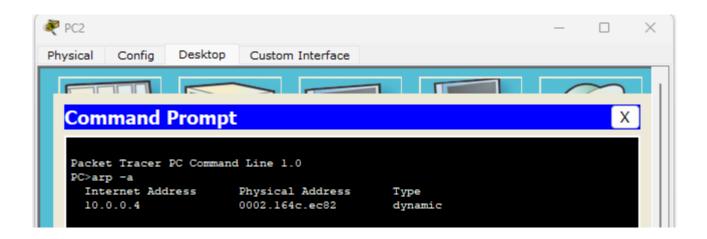
Configuration:				
0				
Hardware Address	Interface			
0002.164C.EC82	FastEthernet0			
1		x		
Hardware Address	Interface			
0002.164C.EC82	FastEthernet0			
2		×		
Hardware Address	Interface			
0002.164C.EC82	FastEthernet0			
ver0		×		
Hardware Address	Interface			
00D0.BA77.8E57	FastEthernet0			
0001.6308.A3CE	FastEthernet0			
0060.7081.4447	FastEthernet0			
	Hardware Address 0002.164C.EC82 Hardware Address 0002.164C.EC82 Hardware Address 0002.164C.EC82 ver0 Hardware Address 00D0.BA77.8E57 0001.6308.A3CE	Hardware Address Interface O002.164C.EC82 FastEthernet0 1 Hardware Address Interface O002.164C.EC82 FastEthernet0 2 Hardware Address Interface O002.164C.EC82 FastEthernet0 ver0 Hardware Address Interface O0D0.BA77.8E57 FastEthernet0 FastEthernet0 FastEthernet0 FastEthernet0 FastEthernet0		

Output:

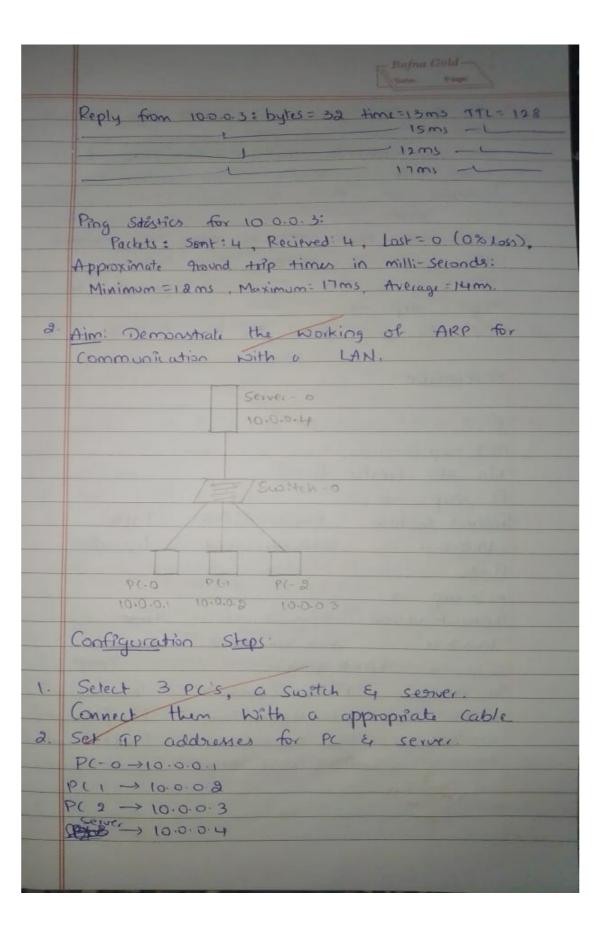
```
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=16ms TTL=128
Reply from 10.0.0.1: bytes=32 time=12ms TTL=128 Reply from 10.0.0.1: bytes=32 time=6ms TTL=128
Reply from 10.0.0.1: bytes=32 time=11ms TTL=128
Ping statistics for 10.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 16ms, Average = 11ms
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=7ms 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
Reply from 10.0.0.2: bytes=32 time=10ms 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 = 7ms, Maximum = 11ms, Average = 9ms
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=13ms TTL=128
Reply from 10.0.0.3: bytes=32 time=15ms TTL=128
Reply from 10.0.0.3: bytes=32 time=12ms TTL=128
Reply from 10.0.0.3: bytes=32 time=17ms 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 = 12ms, Maximum = 17ms, Average = 14ms
```

```
PC>arp -a
No ARP Entries Found
PC>arp -a
Internet Address Physical Address Type
10.0.0.4 0002.164c.ec82 dynamic
```





Observation:



3	Go to PCO command prompt type commons
	PLY arp -9. You can observe that No ARP Entries Found You can observe that No ARP Entries Found Now, take a simple PDU select source address as PL-0 & destination address
	click on that PDU & you can observe the Input & output PDU details
	Now go to Pla Command prompt & type arp -a. Po the same thing for P(1, & P(2)
	observation!
	PCZ curp -a No ARP Entries found. PC> arp -a
5.	Internet address Physical Address Type 10.0.0.4 0002.164 C. ecsa dynamic PC-1
	Internet address Physical address Type 10.0.0.4 0008. 1641. ecr2 dynamic Seiver-0 (ARP Table)
	10.00. BATT. 8EST FastEtherate 10.00. 8001. 6308. A3CE FastEtherate
	10.00 3 0060. 7081. 4447 Fast Etherate