LAB WEEK 8

a) To demonstrate communication between two devices using a wireless LAN

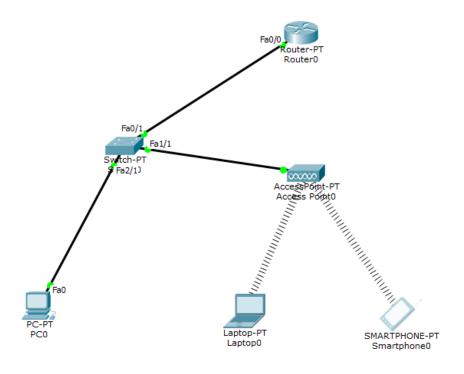


Figure 1: Topology

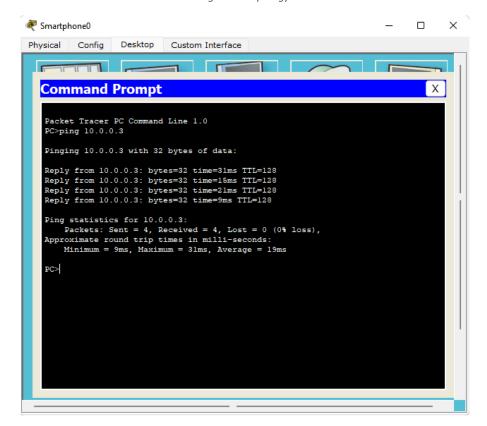


Figure 2: Output

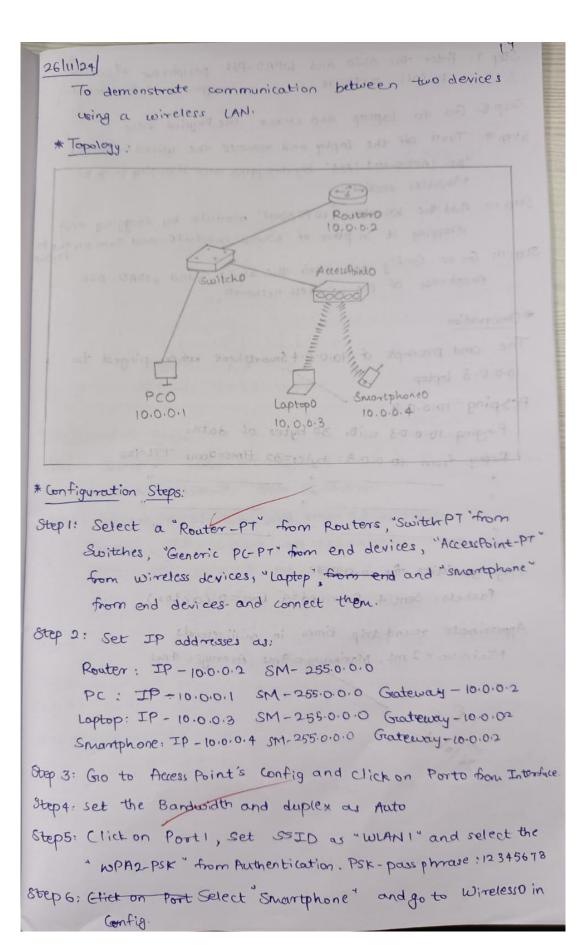


Figure 3: Observation Book

Step 7: Enter the SSID and WPA2-PSK passphrase of which WLAN 1: 10345678. You want to connect. Step 8: Go to Laptop and choose the Physical view. Step 9: Turn off the laptop and remove the wired interface "PT- LAPTOP-NM-IAM" by dragging and dropping in the Modules section. Step 10: Add the Wireless "WPC300N" module by drogging and dropping it in place of wired module, and Turn on the Re Step 11: Go to Config and enter the SS ID and WPAD-PSK passphrase of the wireless network * Observation: The and prompt of 10.0.0.4 Smartphone when pinged to 10.0.0.3 laptop 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=20ms TTL=128 " Route PT Low Routers, "Suite Spirkes, "Generic PC-PT" from end devices, "Accelling Pr Ping statistics for 10.0.0.3: Packets: Sent=4, Received=4, Lost=0 (0% Loss) Approximate round trip times in milliseconds Minimum = 2 ms, Maximum = 9 ms, Average = 4 ms

Figure 4: Observation Book 2

b) Demonstrate the working of Address Resolution Protocol for communication with the LAN

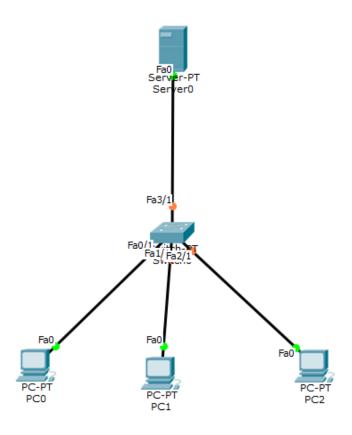


Figure 5: Topology

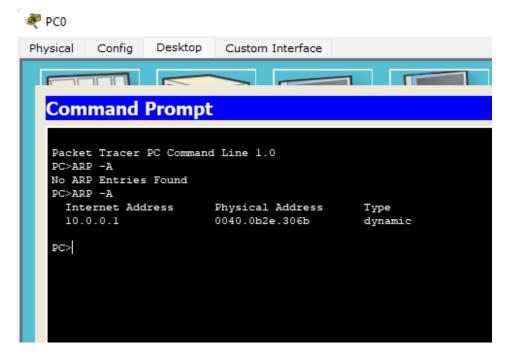


Figure 6: Output

ARP Table for Server0

IP Address	Hardware Address	Interface
10.0.0.2	0050.0FE6.B928	FastEthernet0
10.0.0.3	0006.2A43.09E6	FastEthernet0
10.0.0.4	0005.5E8B.248E	FastEthernet0

Figure 7: Output 2

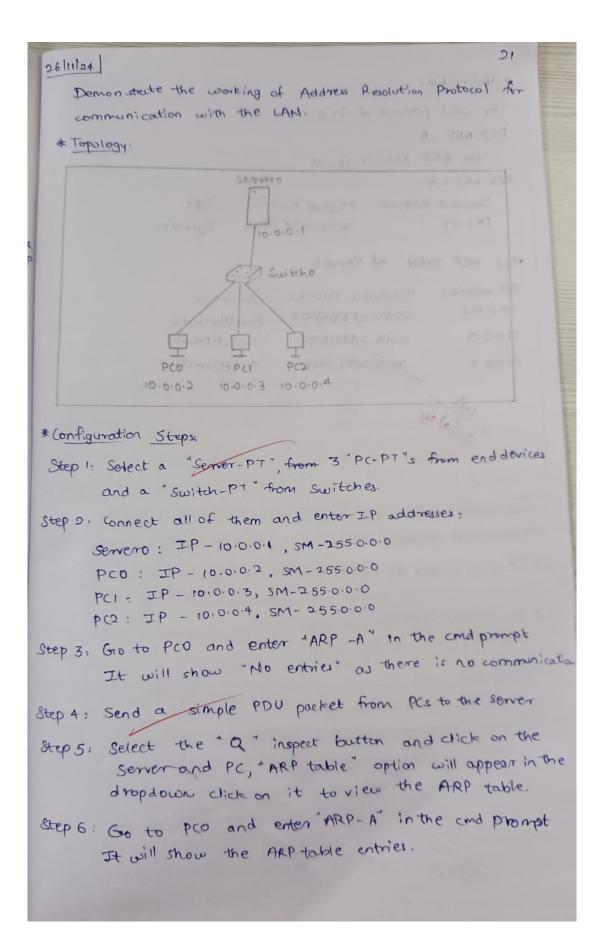


Figure 8: Observation Book 1

*Observation: The cond prompt of PCO PC> ARP -A No ARP Entries Found PCY ARP - A Internet Address Physical Address Type 10.0.0.1 0040.0b2e.30eb Dynamic The ARP table of Servero IP address Hardware Address Interface 10.0.0.2 0050.0FE6.B928 FastEtherneto 10.0.0.3 0006.2 A43.09E6 FastEtherneto 10.0.0.4 0005.5E8B.248F FastEtherneto Serveno: IP-10-0-01, SM-2550-0

Figure 9: Observation Book 2