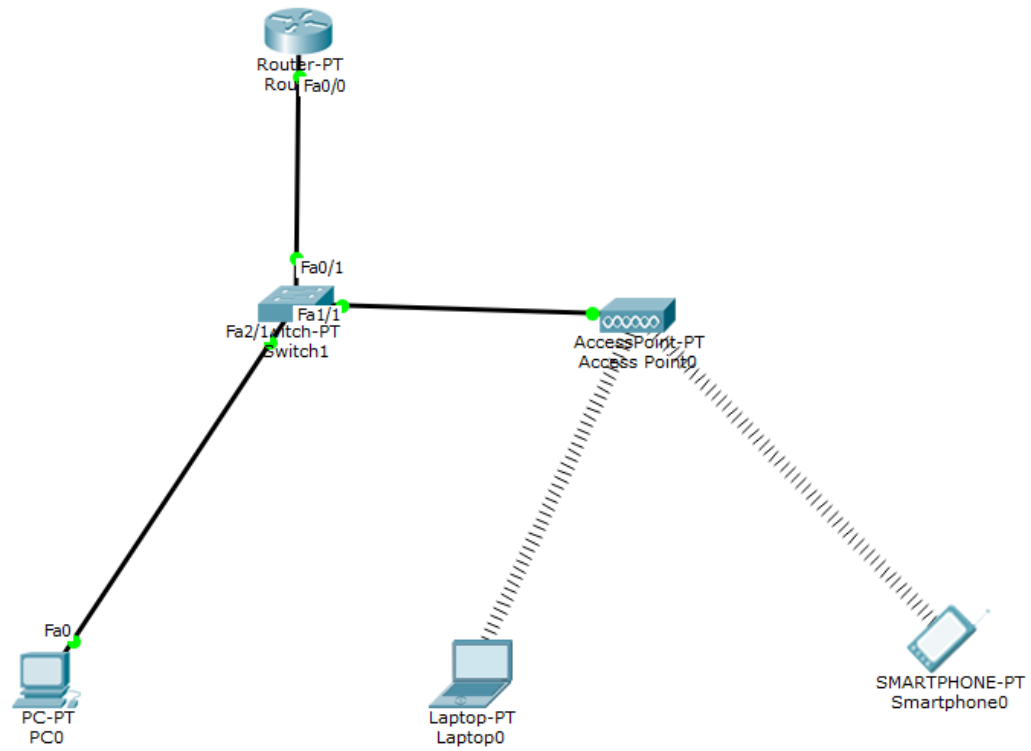


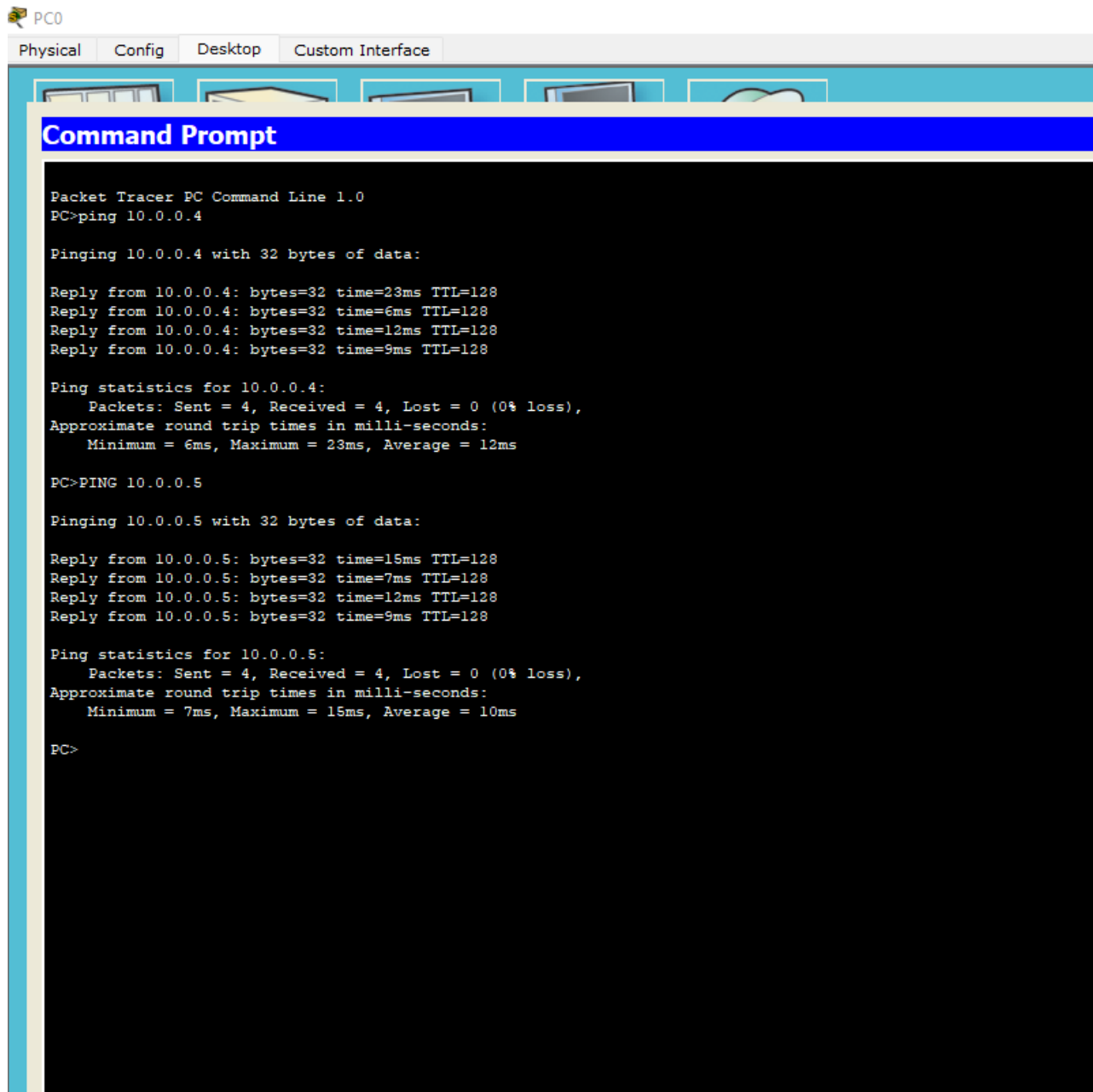
## Experiment 9

Aim: To demonstrate communication between two devices using wireless LAN

Topology:



Output:



The screenshot shows the Packet Tracer interface with the 'PC0' tab selected. The 'Command Prompt' window is open, displaying the following text:

```
Packet Tracer PC Command Line 1.0
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=23ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Reply from 10.0.0.4: bytes=32 time=12ms TTL=128
Reply from 10.0.0.4: bytes=32 time=9ms 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 = 6ms, Maximum = 23ms, Average = 12ms

PC>PING 10.0.0.5

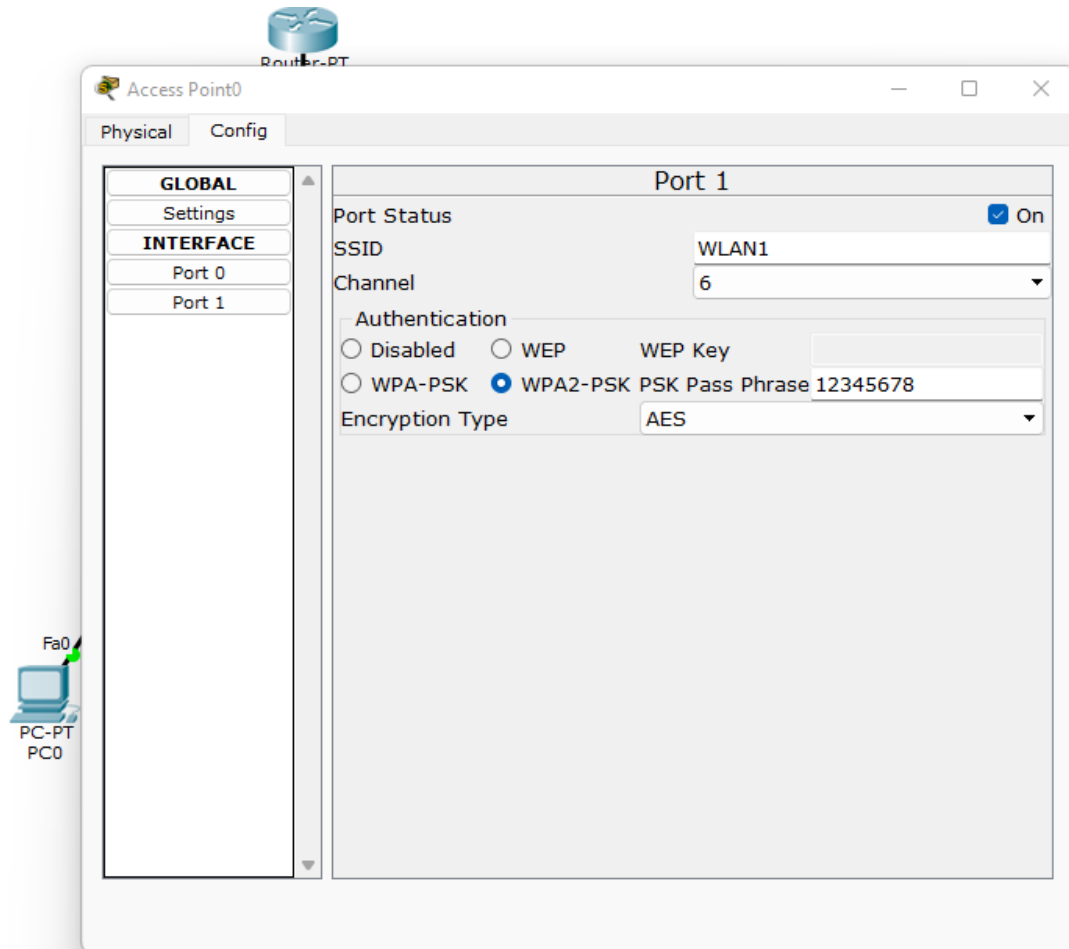
Pinging 10.0.0.5 with 32 bytes of data:

Reply from 10.0.0.5: bytes=32 time=15ms TTL=128
Reply from 10.0.0.5: bytes=32 time=7ms TTL=128
Reply from 10.0.0.5: bytes=32 time=12ms TTL=128
Reply from 10.0.0.5: bytes=32 time=9ms TTL=128

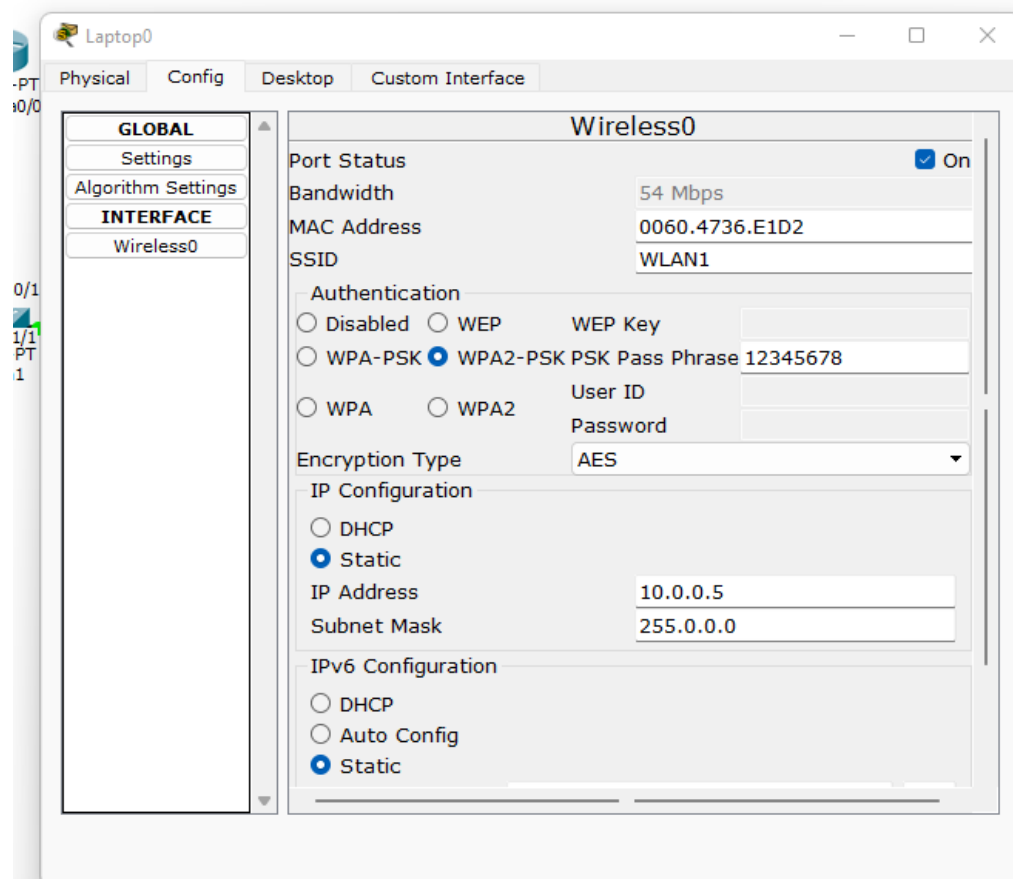
Ping statistics for 10.0.0.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 15ms, Average = 10ms

PC>
```

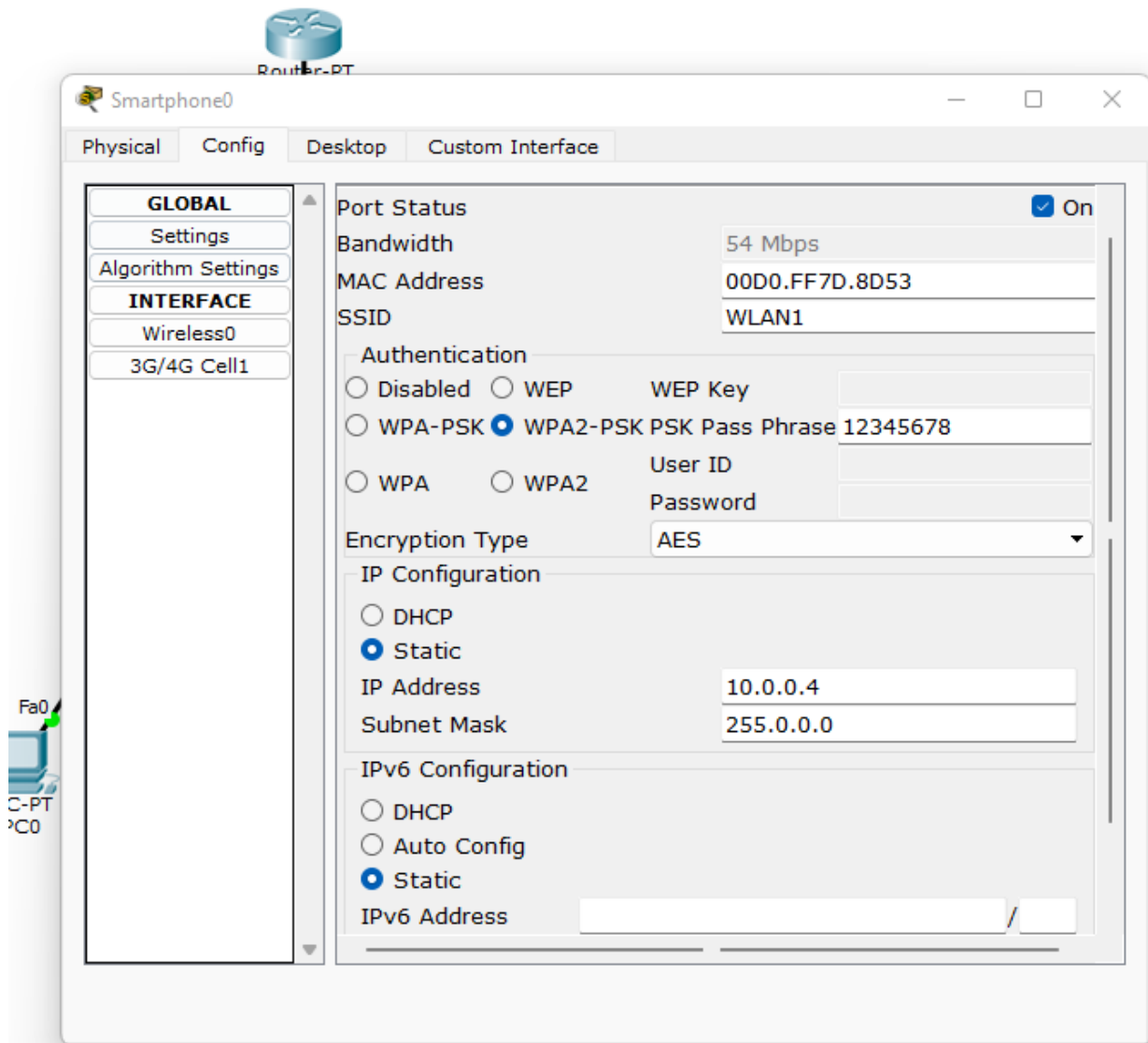
Configuration :



Laptop:



Smart Phone:



Observation:

classmate  
Date \_\_\_\_\_  
Page \_\_\_\_\_

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### Experiment - 9

Aim: To demonstrate communication between two devices using a wireless LAN

TOPOLOGY:

```
graph TD
    Router[Router-PT  
Router 10.0.0.2] --- Fa0_0[Fa0/0] --- Switch[Switch PT  
Switch 1]
    Switch --- Fa0_20[Fa0/20] --- AccessPoint[Access Point-PT  
Access Point 0]
    Switch --- Fa0[Fa0] --- PC[PC-PT  
PC 10.0.0.1]
    AccessPoint -. Wireless .-> Laptop[Laptop-PT  
laptop 10.0.0.5]
    AccessPoint -. Wireless .-> Smartphone[Smartphone-PT  
Smartphone 10.0.0.4]
```

Configuration

- (i) Place a generic router PC and switch along with generic access point, laptop and smartphone.
- (ii) Set the IP addresses for the generic router and PC as 10.0.0.2 and 10.0.0.1 respectively.
- (iii) In access point under config & in Port 0 set the Bandwidth and Duplex as auto while Port status is on
- (iv) Under port 1 set the SSID as ~~WLAN1~~ WLAN1 and authentication as WPA2-PSK PSK Pass Phrase and set the password as 12345678



- (v) Now, In the smartphone under wireless give the SSID as WLAN1 and set the authentication to WPA2-PSK PSK pass phrase and enter the password set. Get set the IP address under IP configuration by setting it to static as 10.0.0.4.
- (vi) set gateway for laptop and PC as 10.0.0.2 (router IP address)
- (vii) Now for laptop - under physical remove the wired connection by turning the laptop off and add the wireless connection physically and turn on the laptop.
- (viii) Now carry out the same steps taken for the smartphone.
- (ix) Try to ping ~~the~~ PC, laptop, smartphone, router.

### OBSERVATION:

With the help of wireless connection we will be able to ping from PC to diff wireless connected devices like the laptop and smartphone.

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