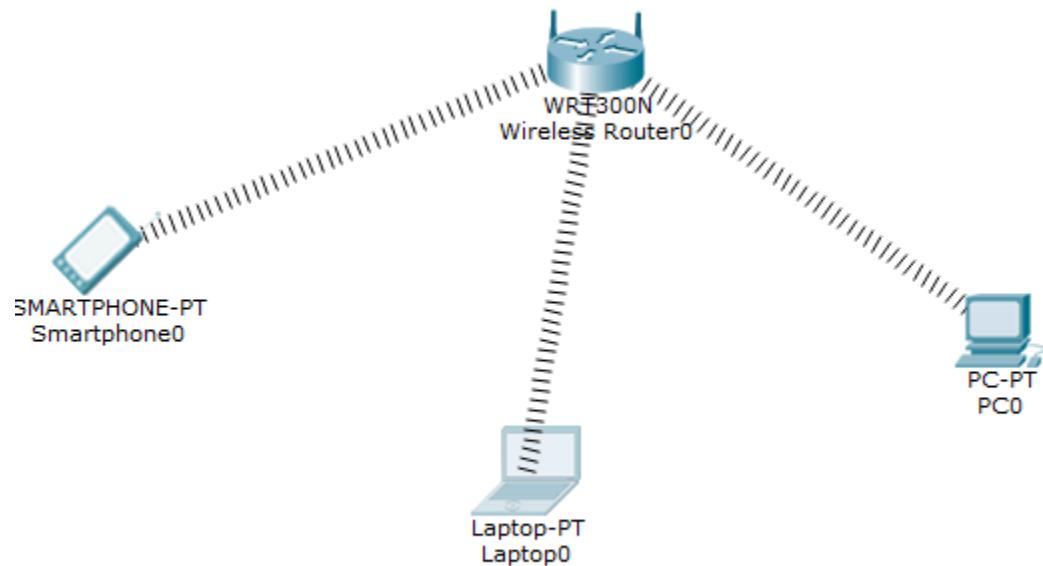


Program – 8:

Aim: To construct a WLAN and make the nodes communicate wirelessly.

Topology:



Procedure:

1. Topology

- Wireless Router0.
- Smartphone0, Laptop0, and PC0 connected wirelessly.

2. Laptop Configuration

- Go to **Physical Tab**.
- Turn off the device.
- Remove Ethernet module.
- Add WiFi module.
- Turn device ON.

3. PC Configuration

- Go to **Physical Tab**.
- Turn off device.
- Remove Ethernet.
- Add WiFi module.
- Turn ON.

4. Wireless Router Configuration

- Go to **Config → Wireless**.
- Set **SSID: BMSCE**.
- Set **Authentication: WPA2-PSK**.
- Set **Password: BMSCE12345**.

5. Smartphone Configuration

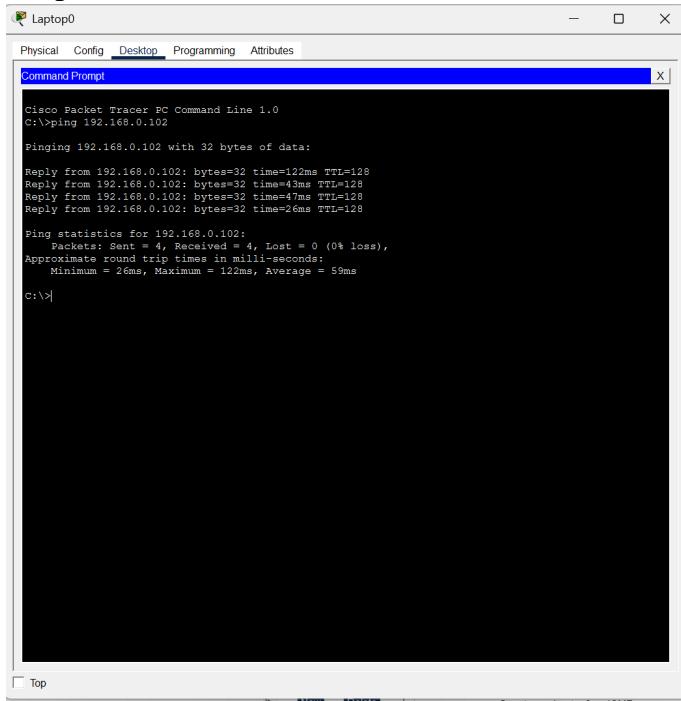
- Enable WiFi.
- Connect to SSID **BMSCE**.

- Enter password **BMSCE12345**.

6. Connect Laptop and PC

- Open WiFi settings → select SSID **BMSCE**.
- Enter password **BMSCE12345**.

Output:



```

Laptop0
Physical Config Desktop Programming Attributes
Command Prompt X

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.102

Pinging 192.168.0.102 with 32 bytes of data:
Reply from 192.168.0.102: bytes=32 time=122ms TTL=128
Reply from 192.168.0.102: bytes=32 time=43ms TTL=128
Reply from 192.168.0.102: bytes=32 time=47ms TTL=128
Reply from 192.168.0.102: bytes=32 time=16ms TTL=128

Ping statistics for 192.168.0.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 26ms, Maximum = 122ms, Average = 59ms

c:\>

```

Fig 8.1 data transfer from laptop to mobile