# WAN Configuration

WAN with 3 LANs:

Step 01: Open a Cisco packet tracer, choose a new file and save it with the name **WAN-1.**

Step 02: Take 3 **1841-Routers**, 3 **Switches**, 4 **PCs**, a **Laptop** ,a **Printer** , a **Web server** and a **PT-Access point** . As;
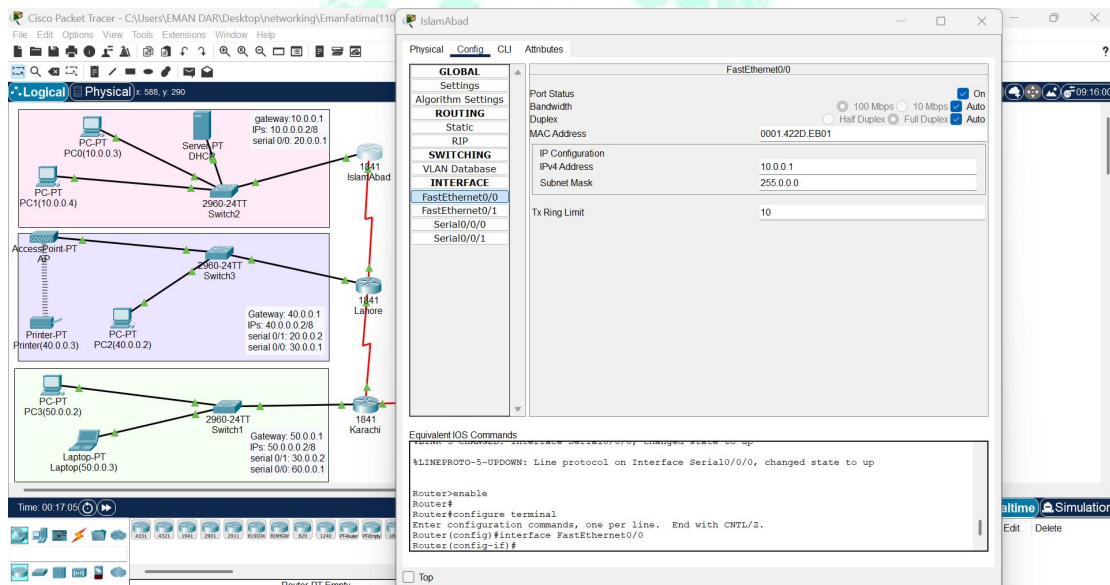
✧ Connect all devices with switches with an Automatic wire.
✧ Use copper straight through to connect all network switches with Routers.
✧ Use **Serial DTE** to connect all network Routers with each other.
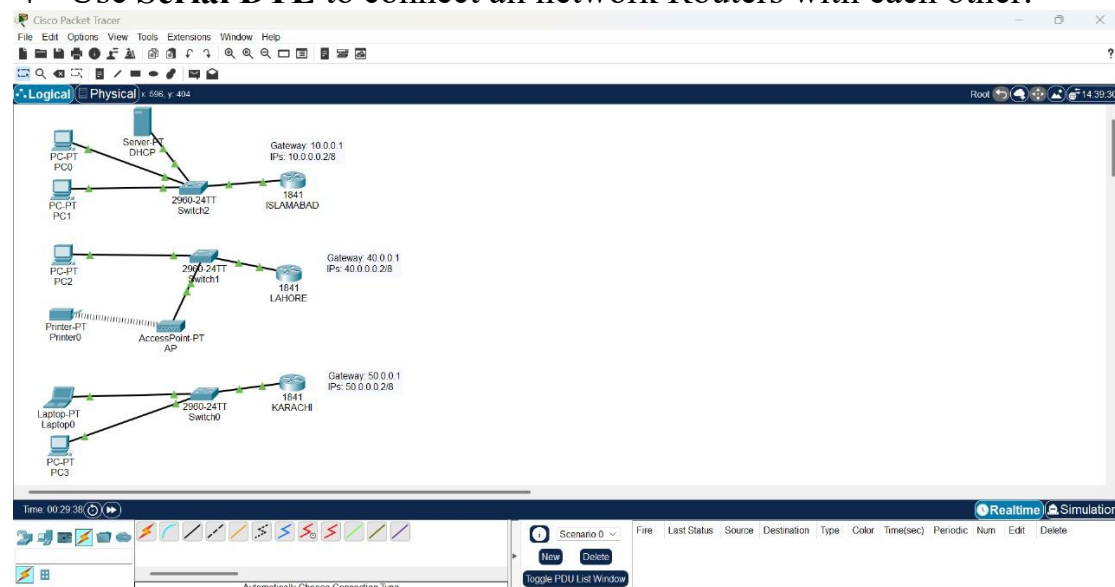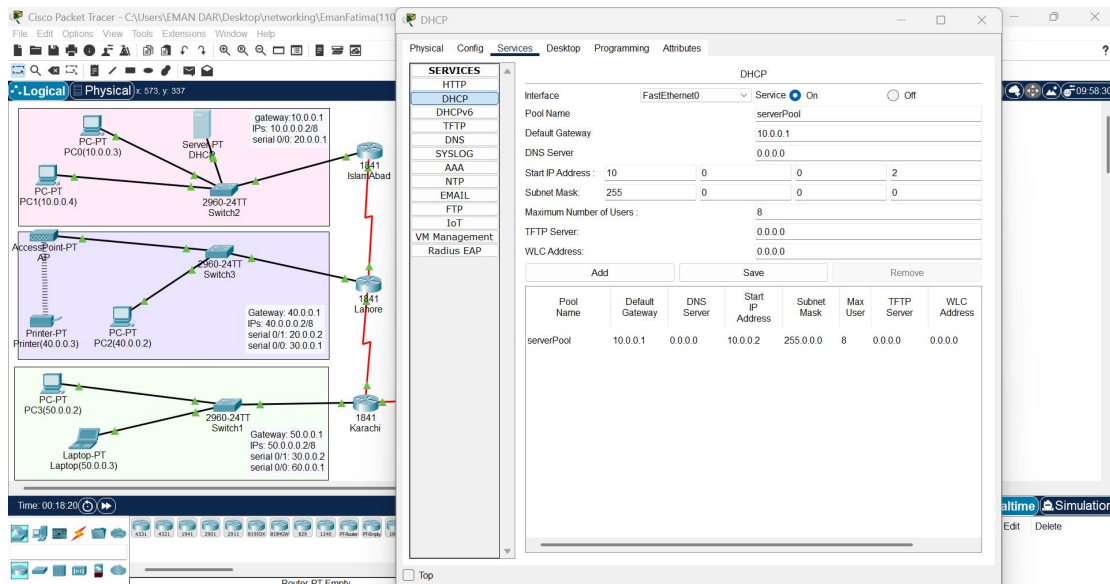

✧ Assign IP addresses (IPv4) to all devices, as;
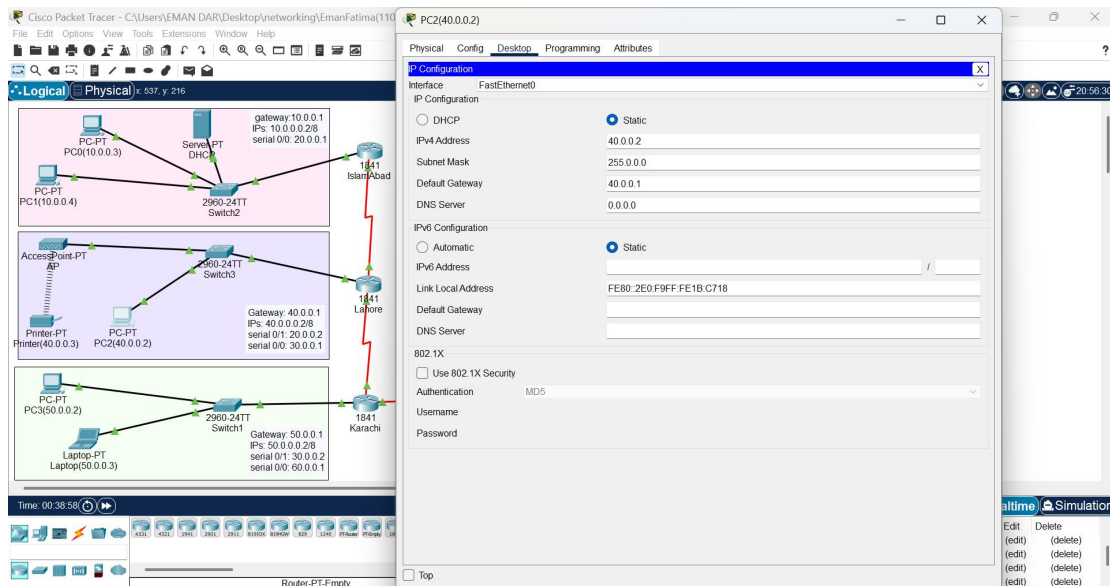
✧ **Configure the Routers** connected to each LAN as;

Step 03: Assign IP addresses to each device as mentioned in the above picture. Also assign gateway to each device according to its network.
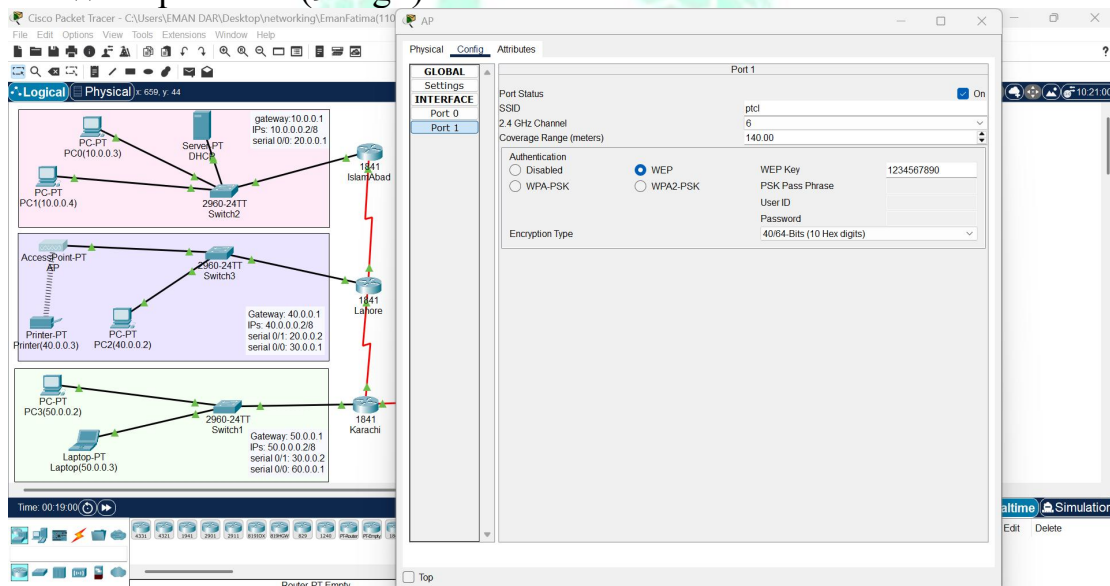
✧ Click on **DHCP server** and assign it an IP address and gateway then click on services and DHCP and turn on its services as;
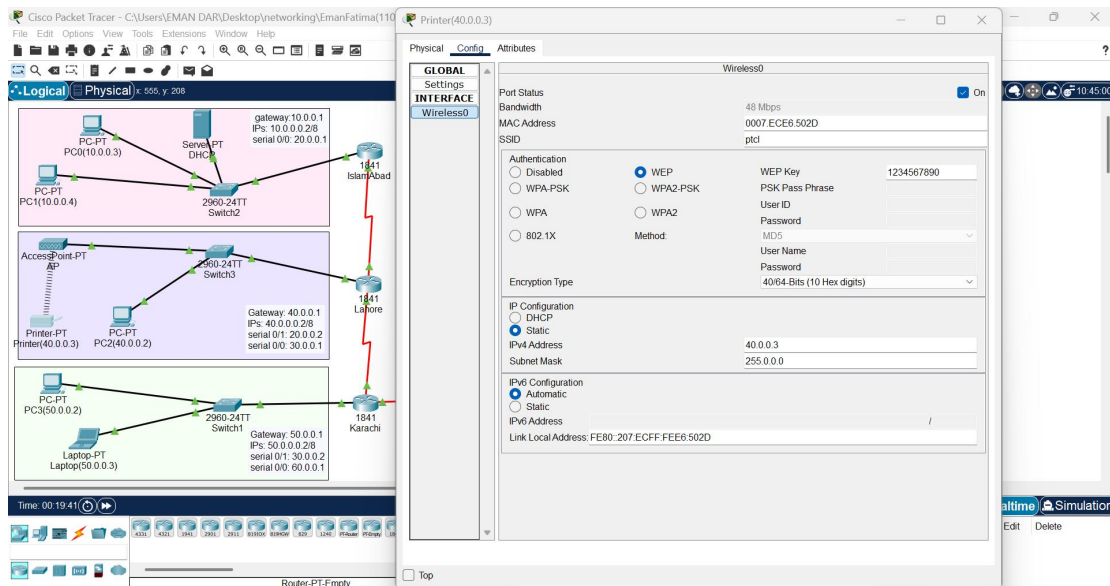
✧ Then go to each device in this network and click on **DHCP** which assign an automatic address to each device .
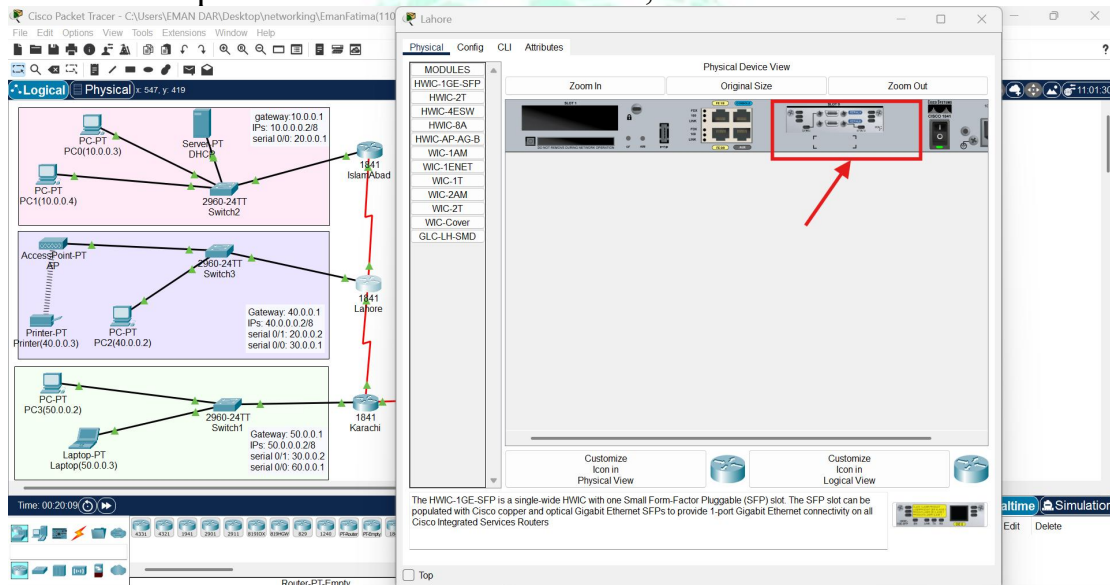
Step 04: Configure Access point as;

✧ Turn on the **port status,** Give an **SSID** to the access point, Set a **WEP** password(9-digit).
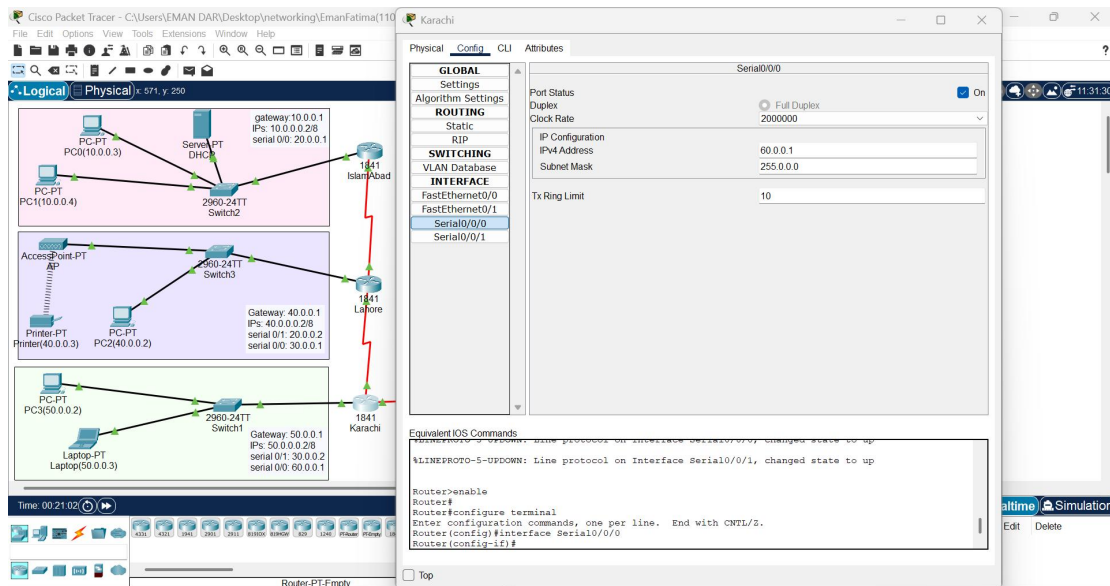

✧ **Configure the printer** by clicking on wireless then assign it all information about access point and also a static IP address. As;

Step 05: For Serial configuration go to Router click on physical and set a HWIC-2T port to connect serial DTE.As;


✧ Now **configure** each **serial port** by assigning IP address according to their networks as;

Step 06: Now again take 1 **1841-Router**, 1 **Switches**, 3 **PCs** for "IPv6", and 1 **1841 Router ,** a **Tablet** and a **PT-Access point** for another LAN. As;

✧ Connect all devices with switches with an Automatic wire.
✧ Use copper straight through to connect all network switches with Routers.
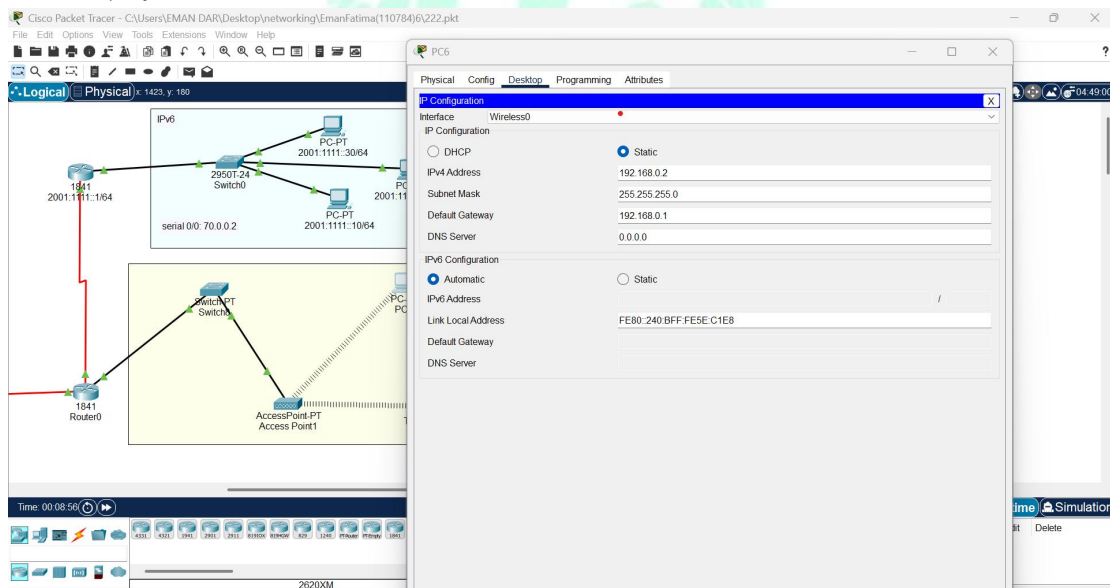✧ Use **Serial DTE** to connect all network Routers with each other.
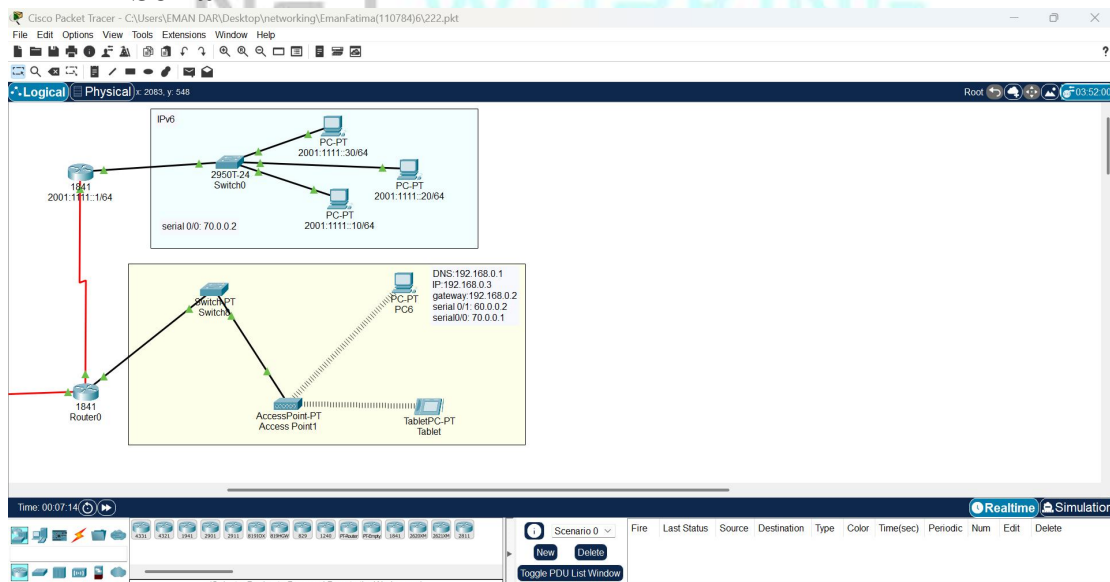
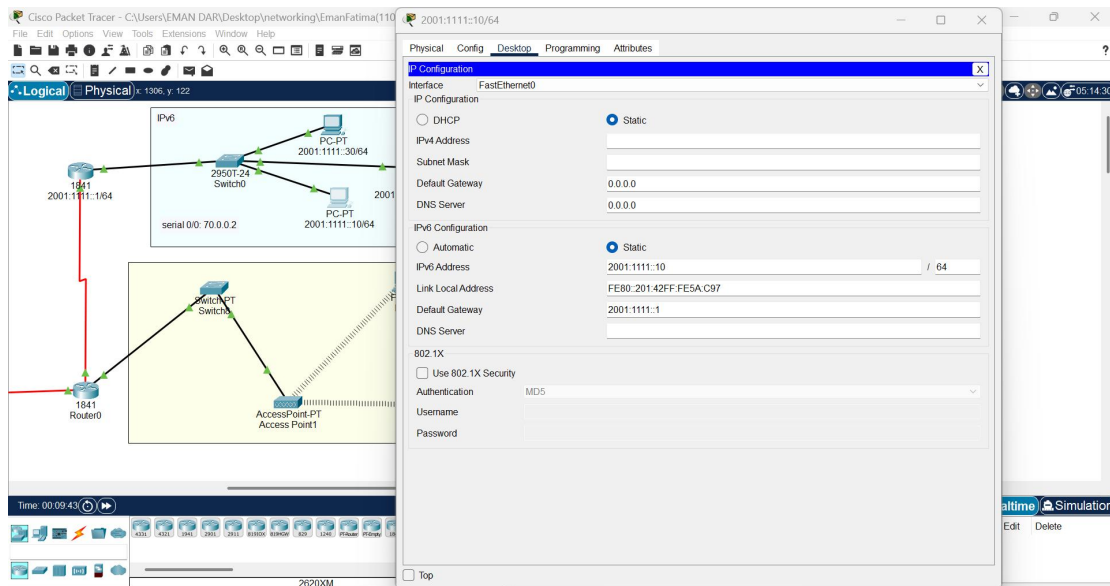✧ **Configure the Routers** connected to each LAN as;
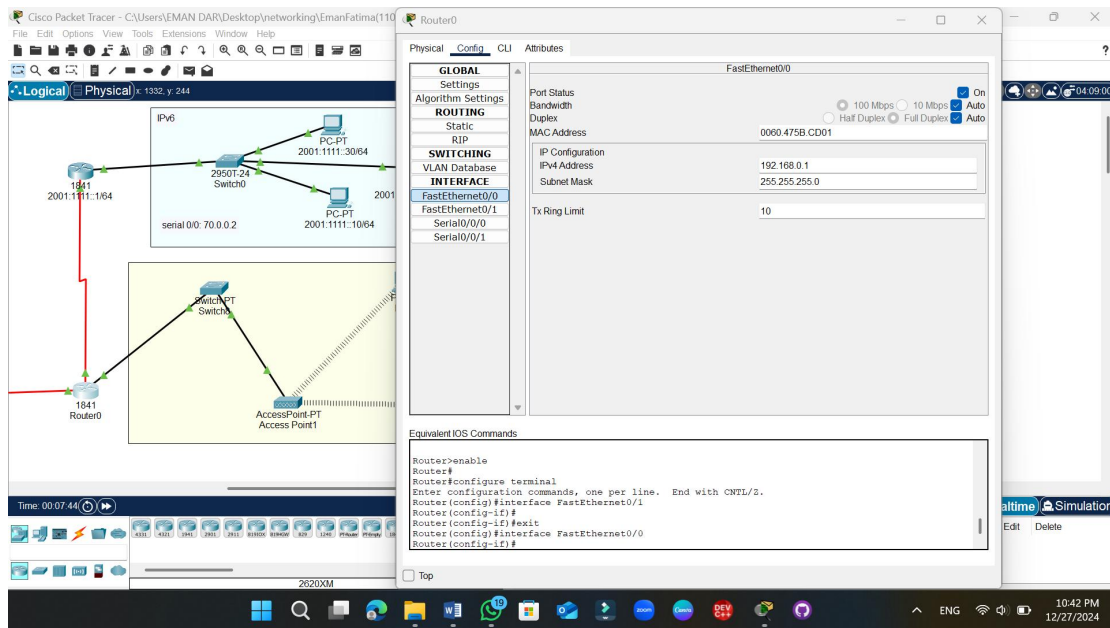
Step 07: Assign IP addresses to each device as mentioned in the above picture. Also assign gateway to each device according to its network.
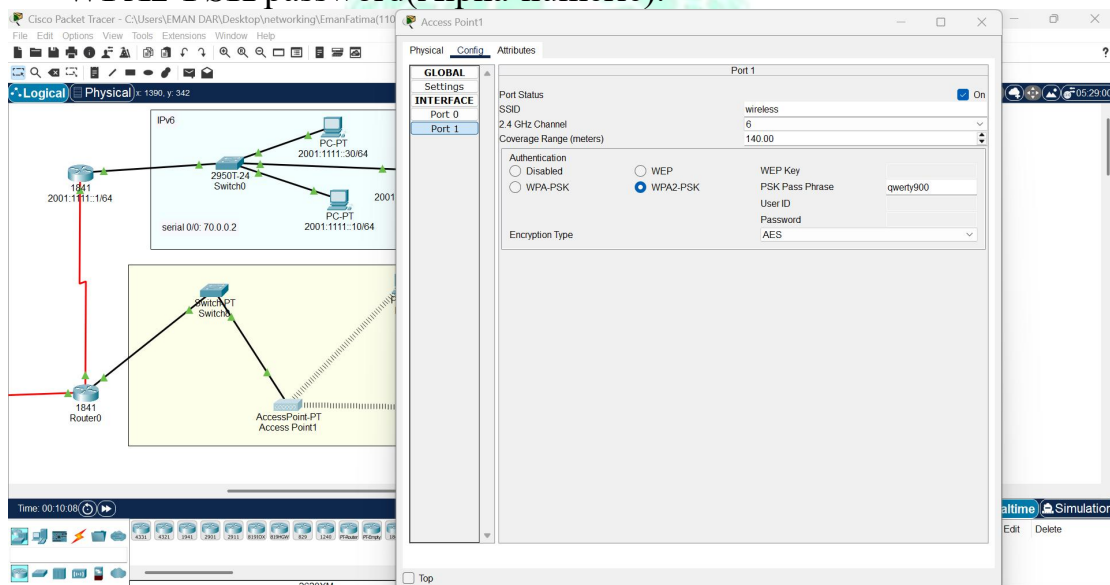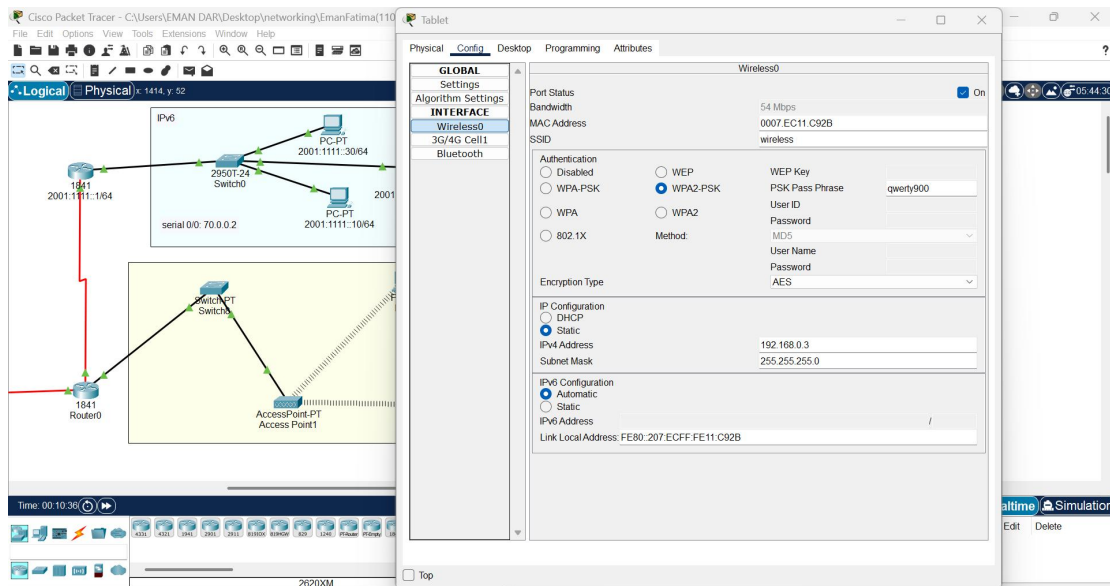
✧ **IPv4:**

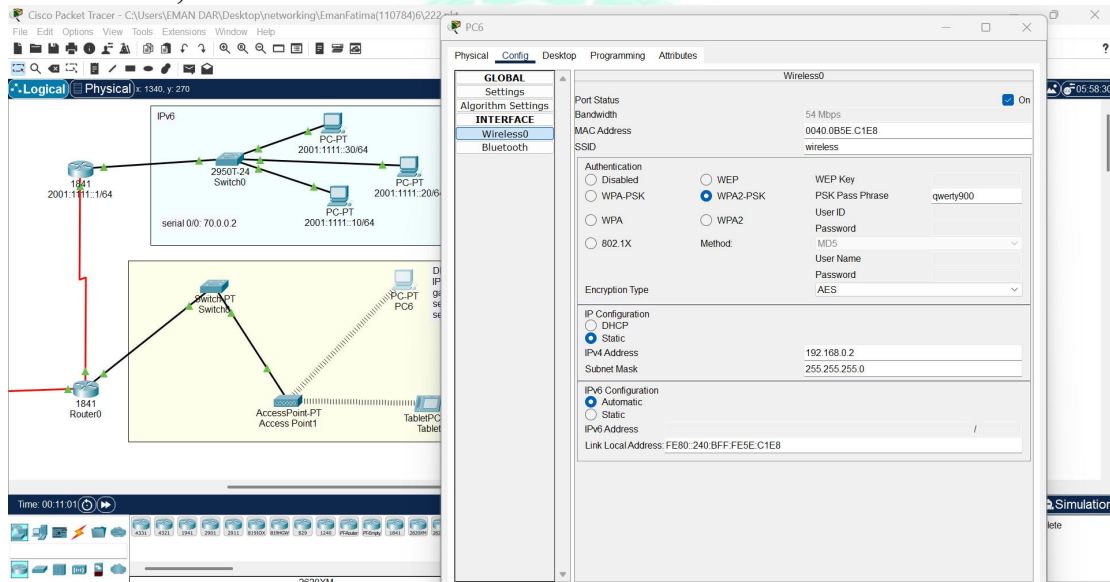✧ **IPv6:**

Step 08: Configure Access point as;

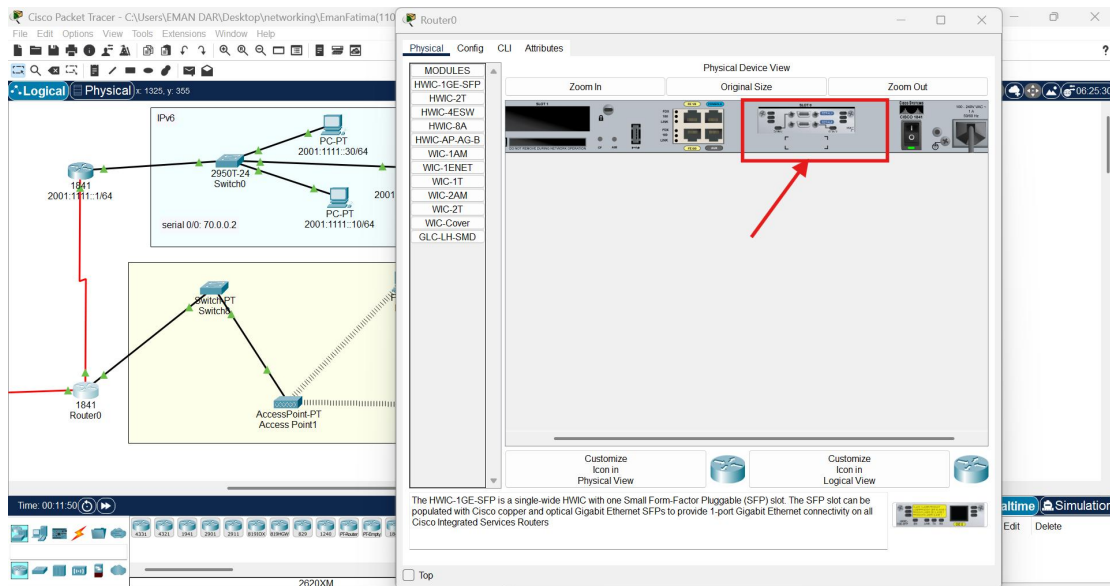✦ Turn on the **port status,** Give an **SSID** to the access point, Set a **WPA2-PSK** password(Alpha-numeric).

✦ **Configure** connected devices by clicking on wireless then assign it all information about access point and also a static IP address.
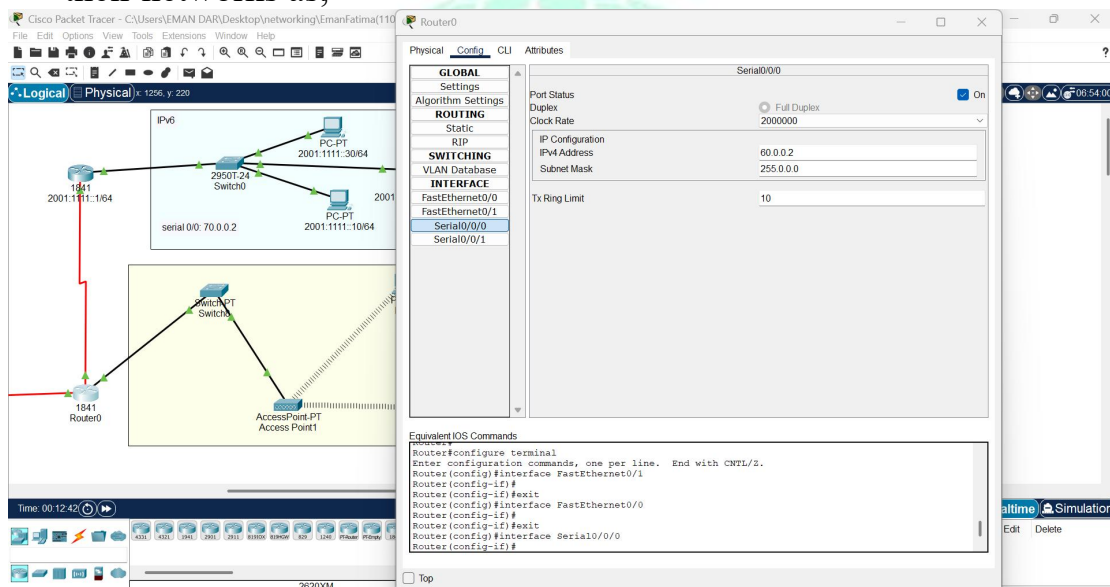
✓ For **Tablet**;

✓ For **PC**;

Step 09: For Serial configuration go to Router click on physical and set a HWIC-2T port to connect serial DTE.As;
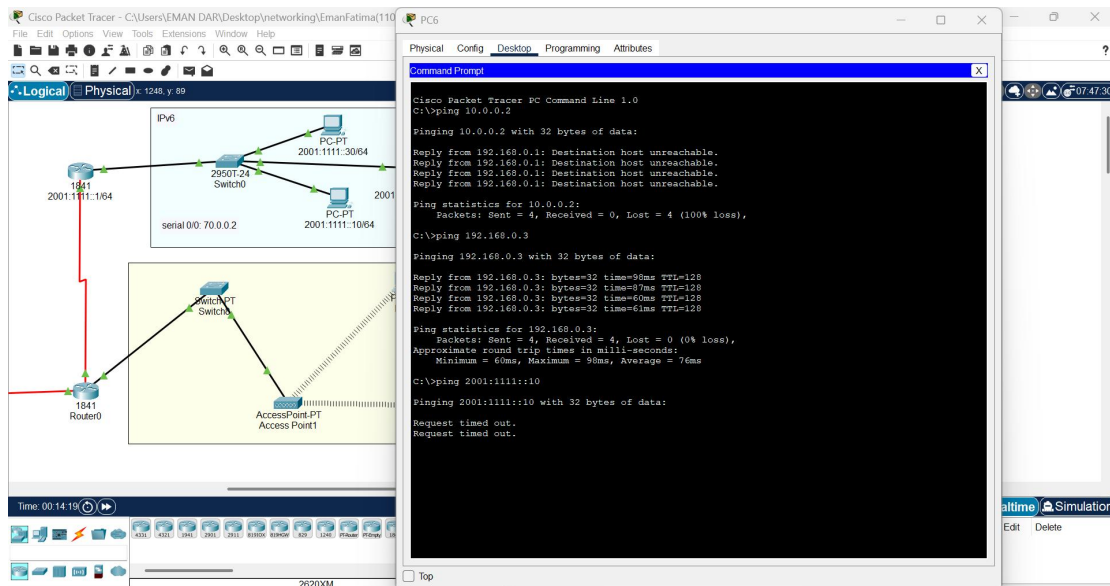
✦ Now **configure** each **serial port** by assigning IP address according to their networks as;
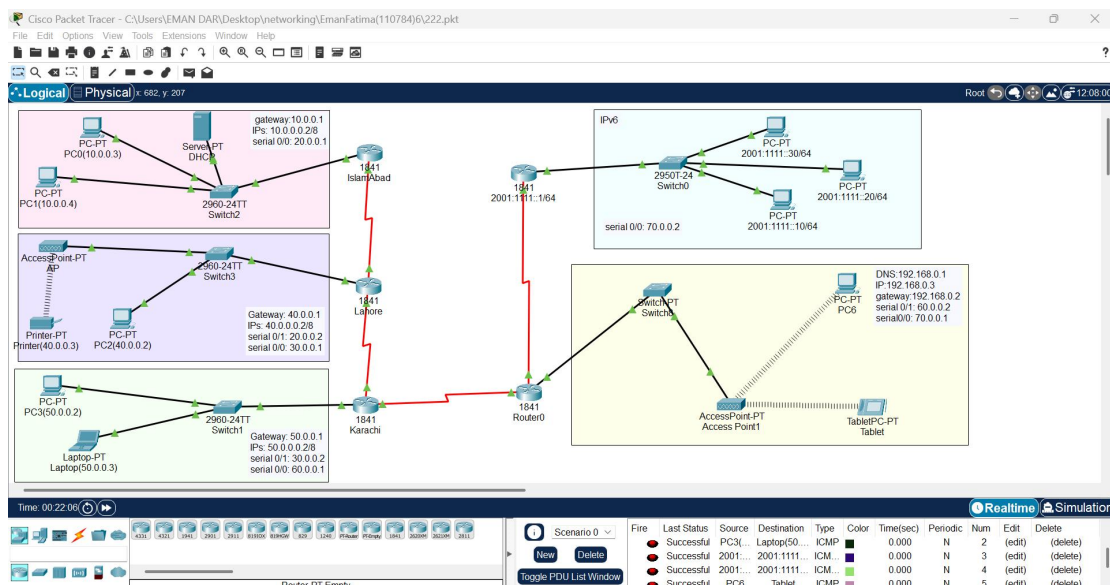

Step 10: Ping your PC as;
1. Click on PC0 go to desktop click on command prompt as;

Step 09: Hence connection is verified as **ICMP successful.**

--The End ----------------------------

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