Date : 05/11/2022
Roll No. and Name : Yash Ginoya(20BCE075)
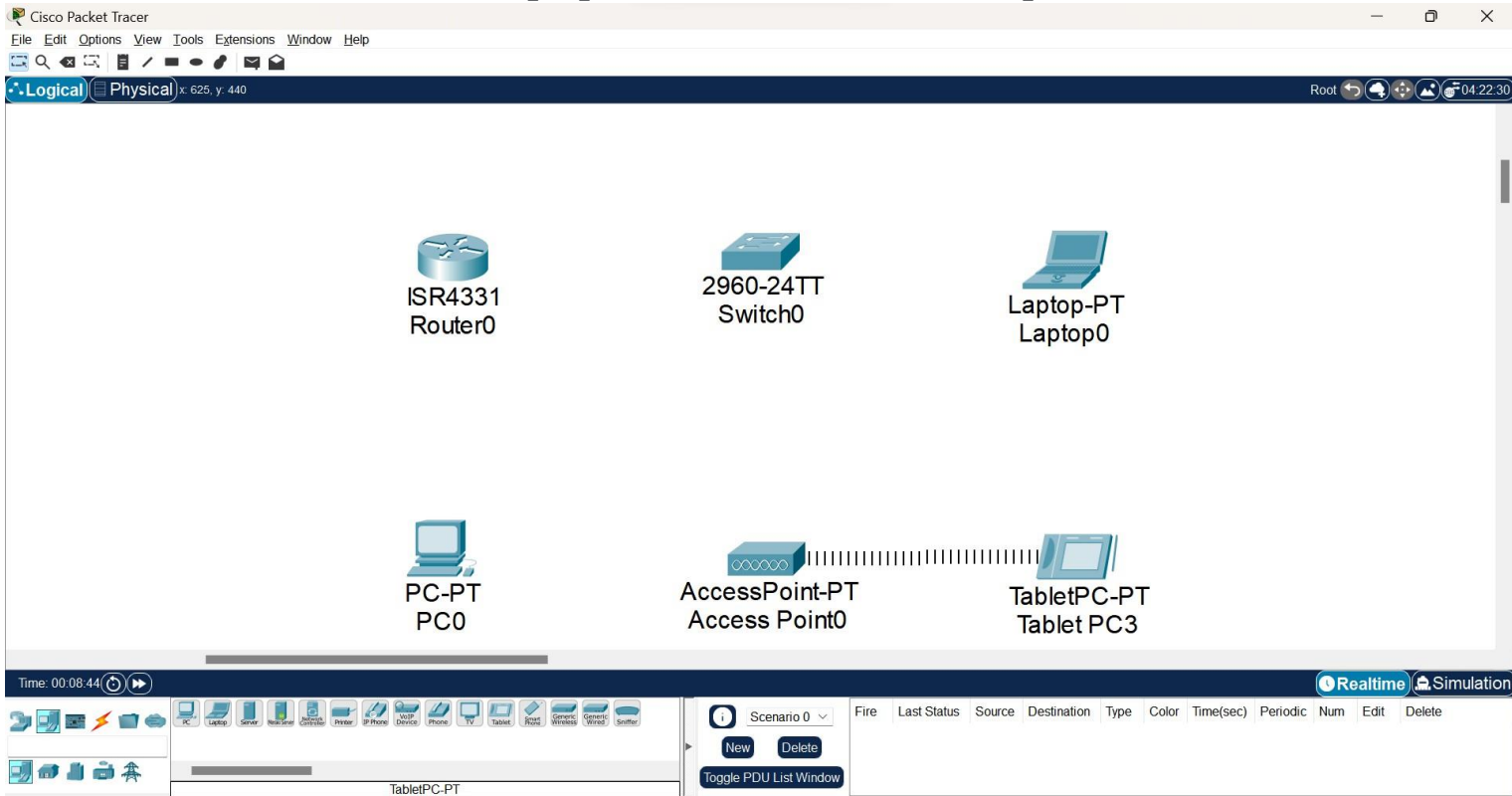Course Code and Name : Computer Networks (2CS502)
Experiment No : 6
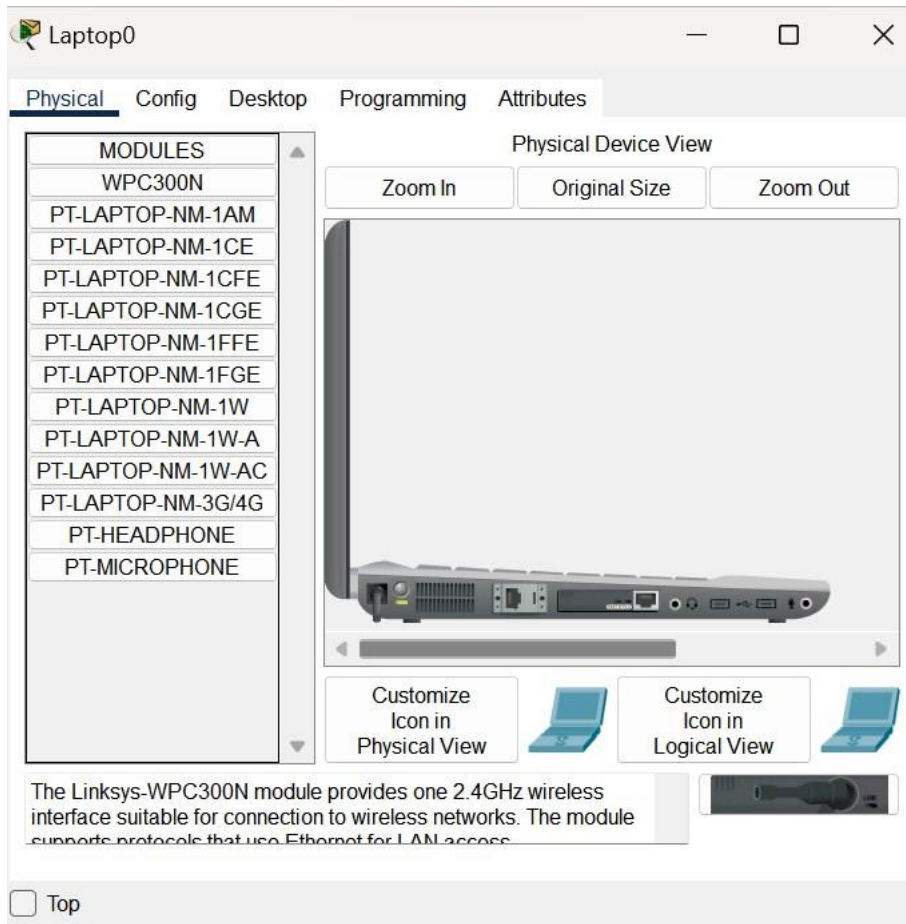----------------------------------------------------------------------------------------------------------
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 • **Aim:** Wireless LAN: Configuration of Wireless LAN using CISCO Packet Tracer.
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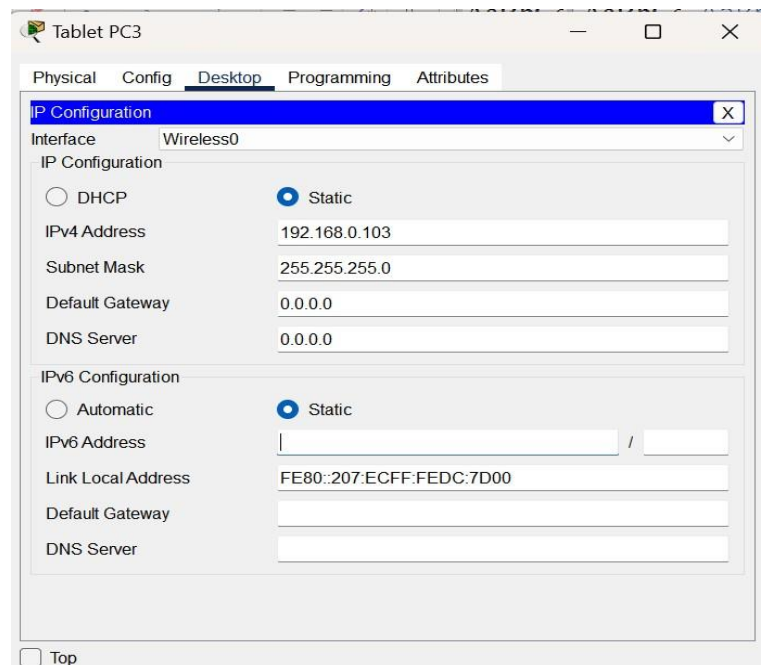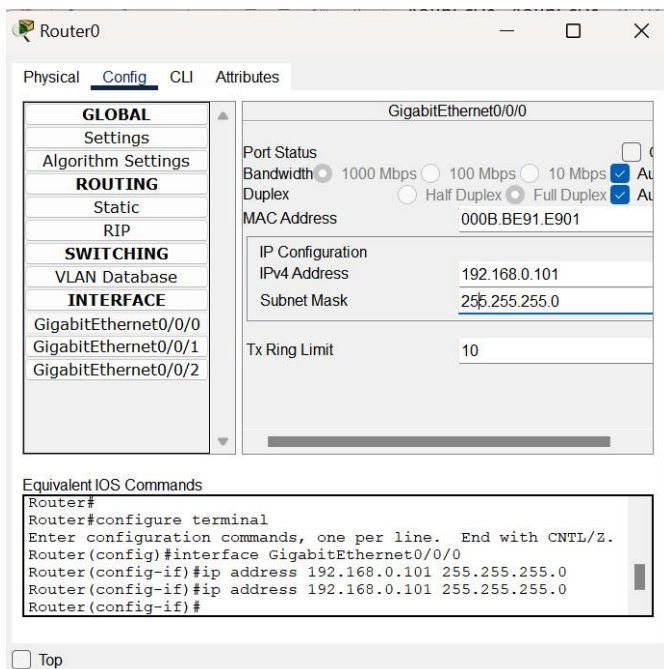 - **1. Add Switch, Router, PC, laptop, Access Point to the workspace.**



**2. Add wireless interface to the laptop(WP300N).**

## Laptop0

**Physical** | Config | Desktop | Programming | Attributes

### Physical Device View

Zoom In | Original Size | Zoom Out

| MODULES |
| --- |
| WPC300N |
| PT-LAPTOP-NM-1AM |
| PT-LAPTOP-NM-1CE |
| PT-LAPTOP-NM-1CFE |
| PT-LAPTOP-NM-1CGE |
| PT-LAPTOP-NM-1FFE |
| PT-LAPTOP-NM-1FGE |
| PT-LAPTOP-NM-1W |
| PT-LAPTOP-NM-1W-A |
| PT-LAPTOP-NM-1W-AC |
| PT-LAPTOP-NM-3G/4G |
| PT-HEADPHONE |
| PT-MICROPHONE |

Customize Icon in Physical View

Customize Icon in Logical View

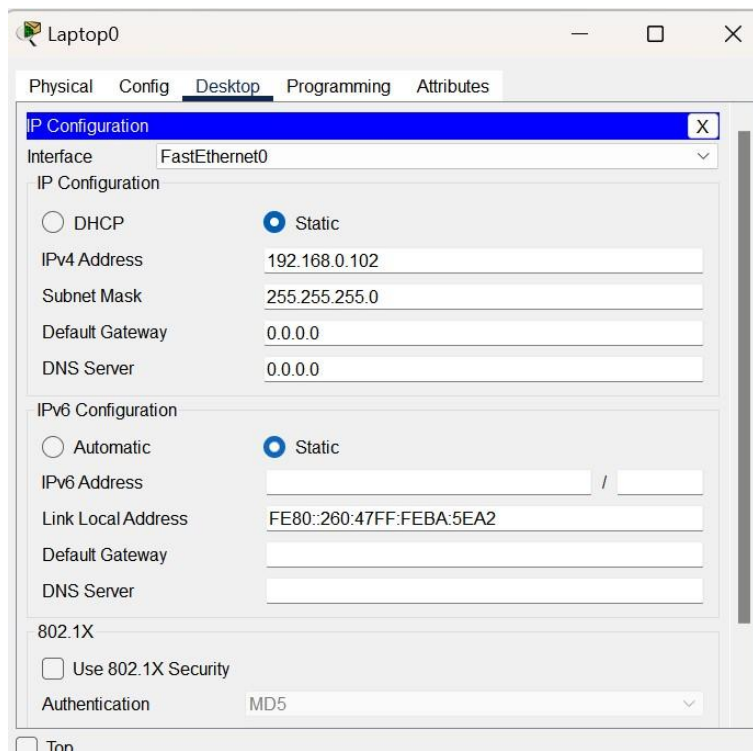The Linksys-WPC300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access

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# 3. Assign appropriate Address to all the devices.

## Router0

Physical | **Config** | CLI | Attributes

| GLOBAL |
| --- |
| Settings |
| Algorithm Settings |
| **ROUTING** |
| Static |
| RIP |
| **SWITCHING** |
| VLAN Database |
| **INTERFACE** |
| GigabitEthernet0/0/0 |
| GigabitEthernet0/0/1 |
| GigabitEthernet0/0/2 |

**GigabitEthernet0/0/0**

Port Status ☐
Bandwidth ○ 1000 Mbps ○ 100 Mbps ○ 10 Mbps ☑ Au
Duplex ○ Half Duplex ○ Full Duplex ☑ Au
MAC Address 000B.BE91.E901

IP Configuration
IPv4 Address 192.168.0.101
Subnet Mask 255.255.255.0

Tx Ring Limit 10

**Equivalent IOS Commands**
```
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#ip address 192.168.0.101 255.255.255.0
Router(config-if)#ip address 192.168.0.101 255.255.255.0
Router(config-if)#
```

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## Tablet PC3

Physical | Config | **Desktop** | Programming | Attributes

**IP Configuration** ☒

Interface Wireless0

IP Configuration
○ DHCP  ● Static

IPv4 Address 192.168.0.103
Subnet Mask 255.255.255.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0

IPv6 Configuration
○ Automatic  ● Static

IPv6 Address _____ / ___
Link Local Address FE80::207:ECFF:FEDC:7D00
Default Gateway _____
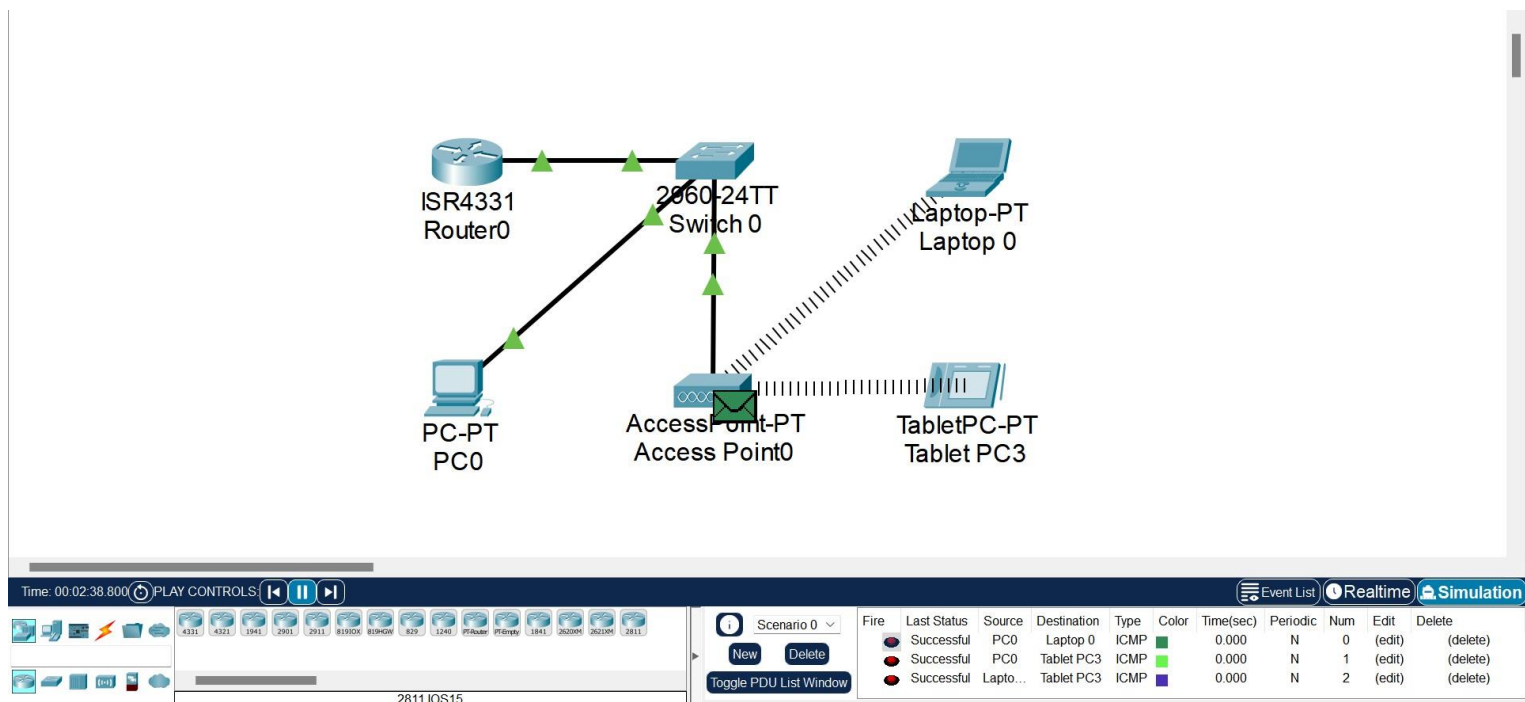DNS Server _____

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## Step 4: Connect All devices to appropriate devices laptop and tablet must be connected wirelessly.
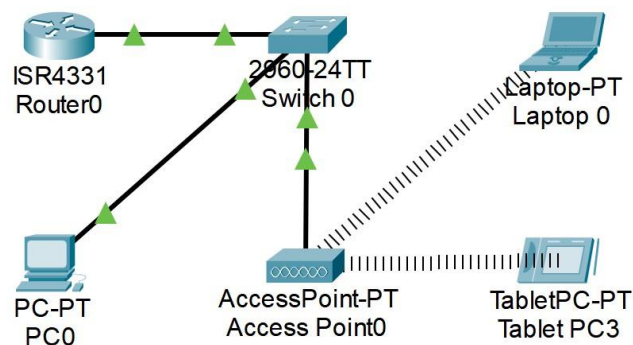


## Step 5: Send packets from one device to another to check the connection.

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• **Conclusion:**

By learning this practical, I learn about Configuration of Wireless LAN using CISCO Packet Tracer.

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