10.Customize Switch with Network Modules in Packet Tracer

Aim:

To customize a Cisco switch by adding and removing network modules in Cisco Packet Tracer to increase its functionality.

Apparatus / Requirements:

Software: Cisco Packet Tracer (version 7.3 or later)
Devices:

- 1 × Cisco 2960 or 3560 Switch
- Network Modules (e.g., NM-1FE-TX, NM-2FE2W, NM-1GE, etc.)

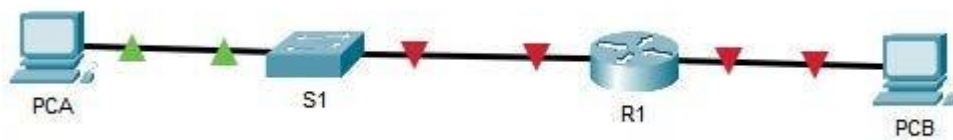**PC/Laptop:** To run Packet Tracer

Theory:

Cisco switches can be customized with **network modules** to expand their capabilities. These modules provide additional interfaces or specialized functions, such as extra Ethernet ports, fiber connections, or WAN modules.

In Cisco Packet Tracer, you can virtually insert these modules to simulate real hardware customization.
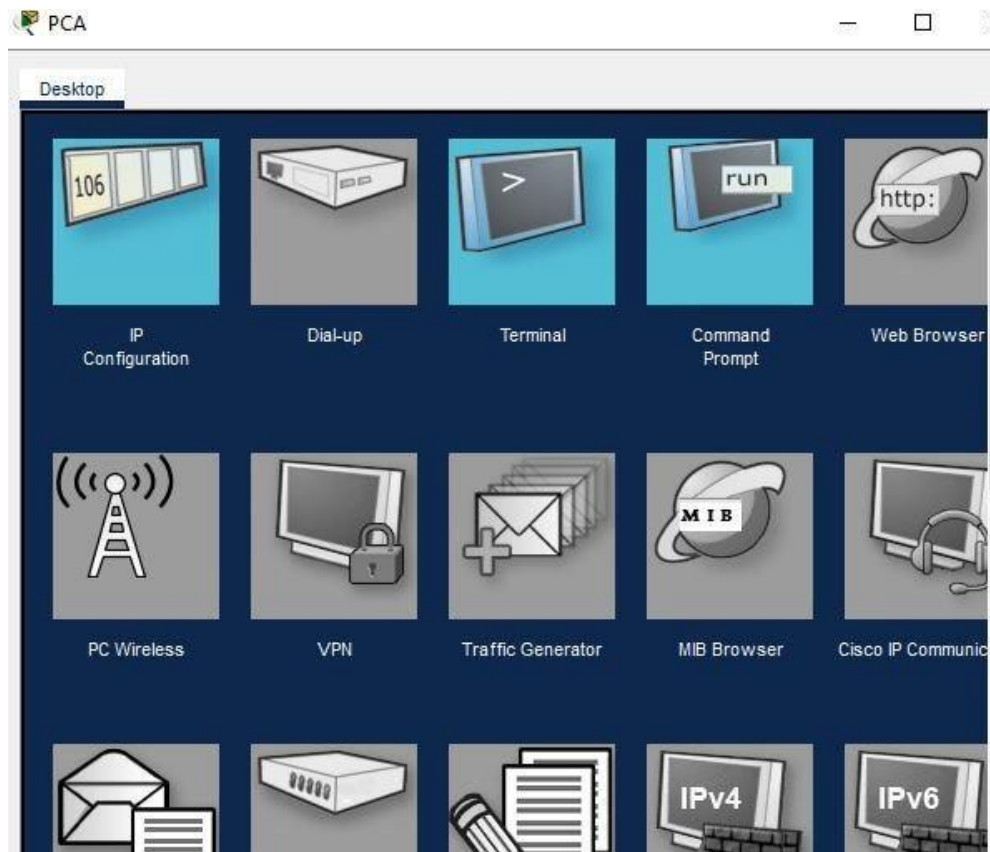
In the bottom toolbar, click **Connections** > **Copper Straight-Through** cable, and then connect between the devices and ports specified above.

Copper Straight-Through

Switch 1 uses the FastEthernet 0/1 to connect with Router 1.

PCA   S1   R1   PCB

Click on PCA computer icon, on the PCA desktop click on IP Configuration

The following values are found in the **Addressing Table**. Enter them in the **IP Configuration** for **PCB** .

- IP Address: **192.168.0.3**

- Subnet Mask: **255.255.255.0**

- Default Gateway: **192.168.0.1**

PCB   — ☐   ✕

Desktop

IP Configuration   X

Interface   FastEthernet0   ⌄

IP Configuration

○ DHCP   ◉ Static

IPv4 Address   192.168.0.3

Subnet Mask   255.255.255.0

Default Gateway   192.168.0.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ◉ Static

IPv6 Address   /

Link Local Address   FE80::210:11FF:FE5C:6883

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5   ⌄

Username

Password

☐ Top