3. Configuration of basic switch setup using Huawei/Cisco network switch using cisco packet tracer.

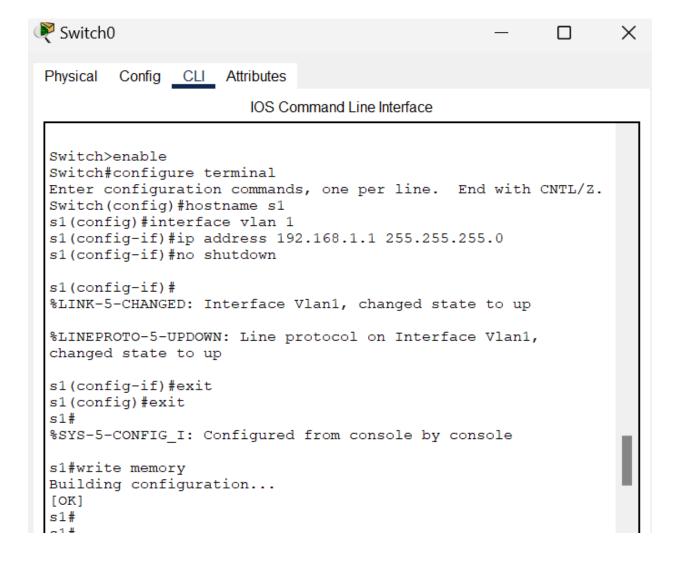
Procedure:

Step 1: Setting Up the Network Topology

- 1. Open Cisco Packet Tracer.
- 2. Add devices:
 - o Drag and drop a Cisco switch (e.g., 2960) onto the workspace.
 - o Drag and drop two or more PCs onto the workspace.
- 3. Connect devices:
 - o Use the Connections option to select the Copper Straight-Through cable.
 - o Connect each PC to the switch using the FastEthernet ports (e.g., PC0 to FastEthernet0/1, PC1 to FastEthernet0/2).

Step 2: Configuring the Switch

- 1. Open the CLI (Command-Line Interface) of the switch:
 - o Click on the switch and go to the CLI tab.



Router Configuration process

1. Enter privileged EXEC mode:

Switch> enable

Switch#

2. Enter global configuration mode:

Switch# configure terminal

Switch(config)#

3. Configure the switch hostname (optional):

Switch(config)# hostname s1

S2(config)#

4. Configure VLAN 1 (default VLAN) interface with an IP address

S1(config)# interface vlan 1

S1(config-if)# ip address 192.168.1.1 255.255.255.0

S1(config-if)# no shutdown

S1(config-if)# exit

S1(config)#

5. Save the configuration:

S1(config)# exit

S1# write memory

Step 3: Configuring PCs

1. Assign IP addresses to PCs:

- o Click on each PC and go to the Desktop tab.
- Open the IP Configuration and assign an IP address within the same subnet as the switch's VLAN 1 interface. For example:
 - PC0: IP Address: 192.168.1.2, Subnet Mask: 255.255.255.0
 - PC1: IP Address: 192.168.1.3, Subnet Mask: 255.255.255.0

Step 4: Testing Connectivity

1. Ping between PCs:

- o Open the Command Prompt on one of the PCs (e.g., PC0).
- o Use the ping command to check connectivity to the other PC (e.g., ping 192.168.1.3).

