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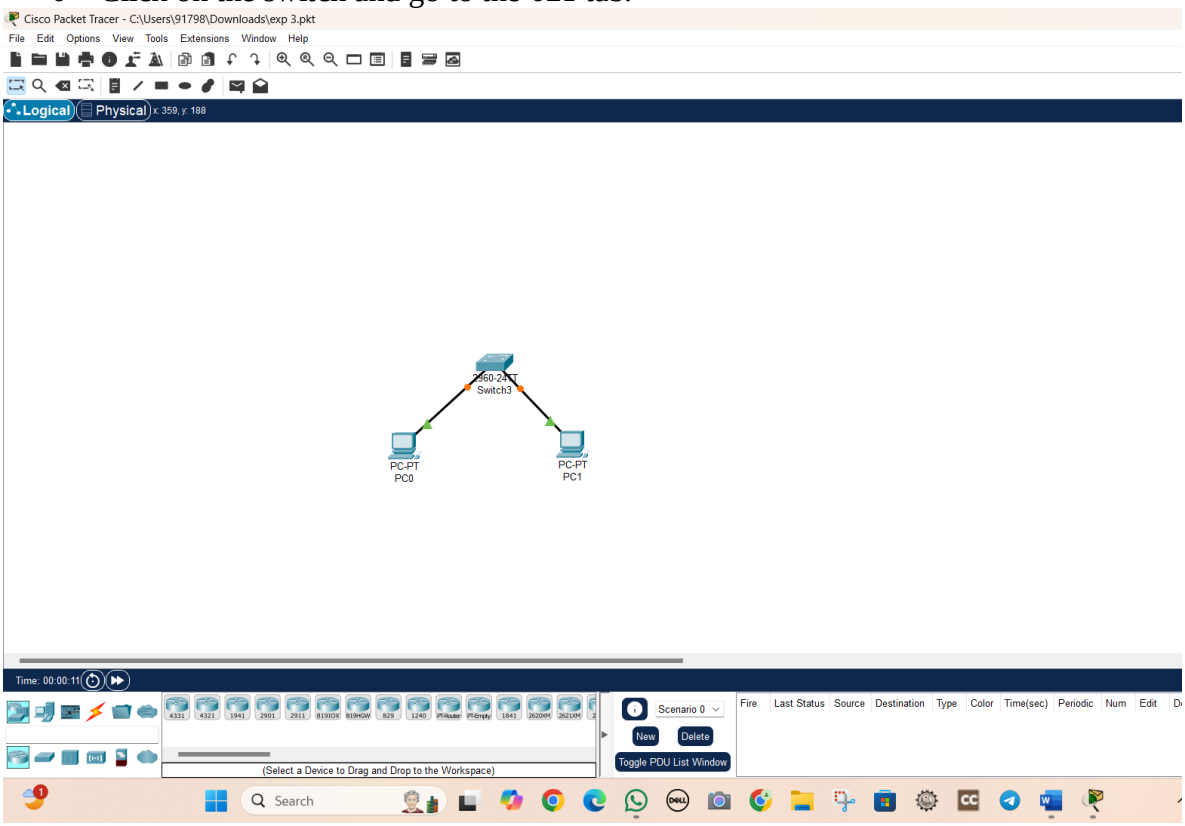
3. Configuration of basic switch setup using Huawei/Cisco network switch using cisco packet tracer.

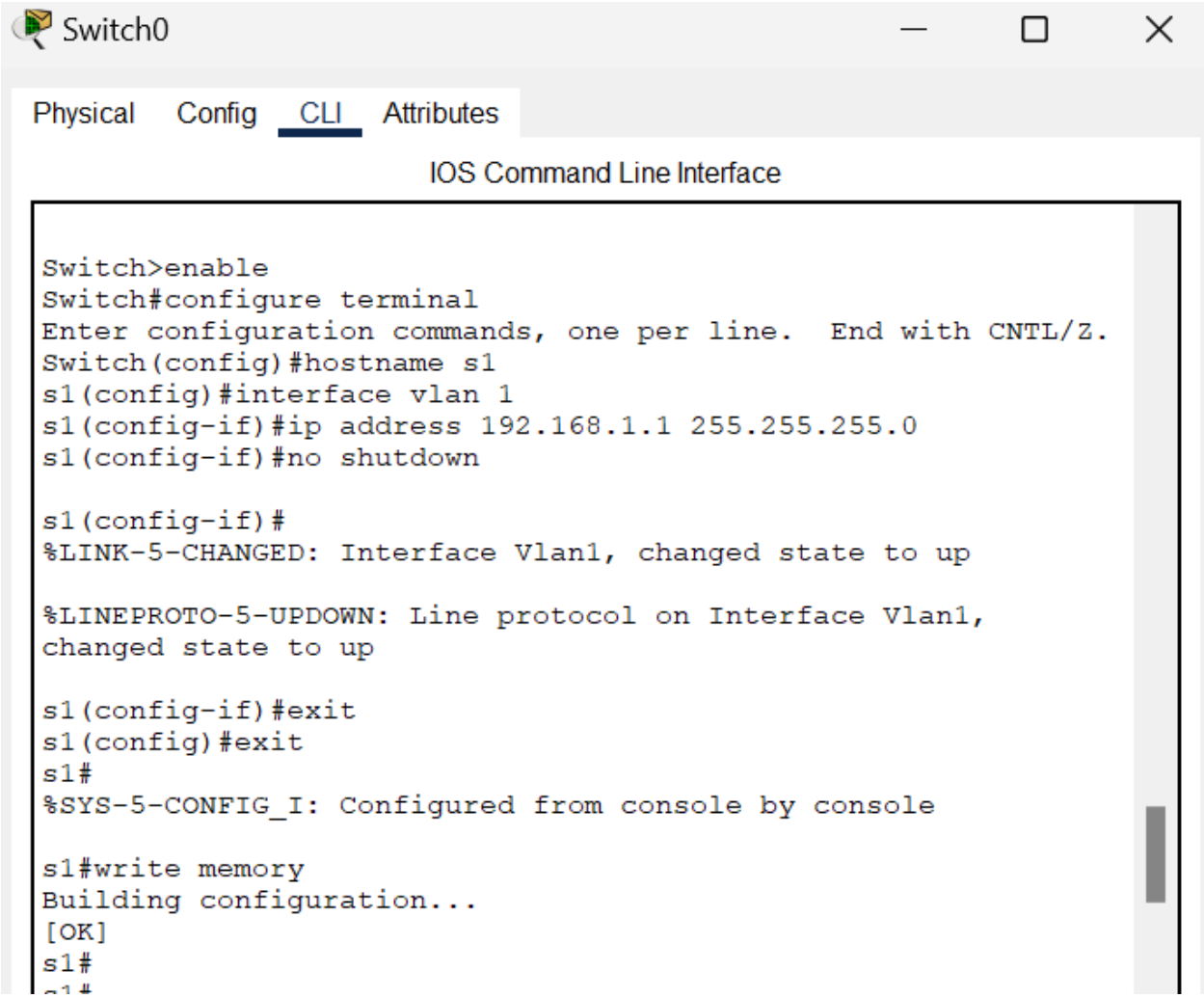
Procedure:

Step 1: Setting Up the Network Topology

1. **Open Cisco Packet Tracer.**
2. **Add devices:**
   - Drag and drop a Cisco switch (e.g., 2960) onto the workspace.
   - Drag and drop two or more PCs onto the workspace.
3. **Connect devices:**
   - Use the `Connections` option to select the `Copper Straight-Through` cable.
   - 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:**
   - Click on the switch and go to the `CLI` tab.
2. 



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