

# **Experiment-8**

**AIM:** - a) Simulate Virtual LAN configuration using CISCO Packet Tracer Simulation.

## **Packet Tracer - Configure VLANs and Trunking - Physical Mode Topology**

### **Part 1: Build the Network and Configure Basic Device Settings**

Step 1: Build the network as shown in the topology.

Step 2: Configure basic settings for each switch.

Step 3: Configure PC hosts. Step 4:

Test connectivity.

### **Part 2: Create VLANs and Assign Switch Ports**

Step 1: Create VLANs on the switches. Step 2: Assign VLANs to the correct switch interfaces.

### **Part 3: Maintain VLAN Port Assignments and the VLAN Database**

Step 1: Assign a VLAN to multiple interfaces.

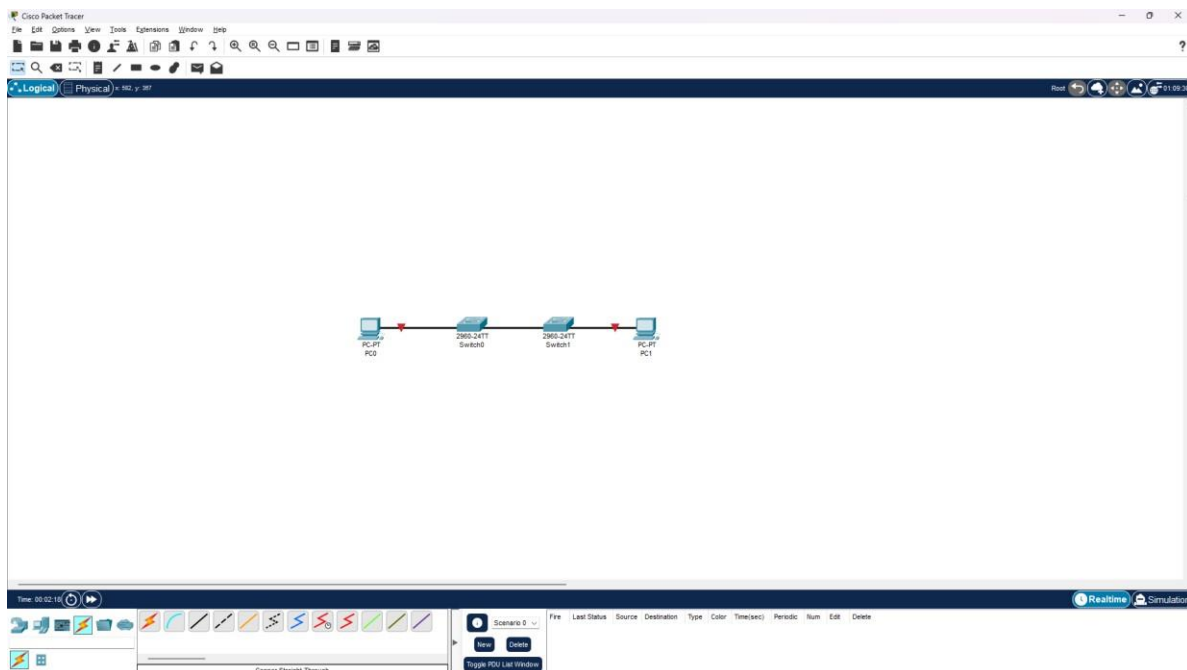
Step 2: Remove a VLAN assignment from an interface.

Step 3: Remove a VLAN ID from the VLAN database.

### **Part 4: Configure an 802.1Q Trunk Between the Switches**

Step 1: Use DTP to initiate trunking on F0/1.

Step 2: Manually configure trunk interface F0/1.



Device	Interface	IP Address	Subnet Mask	Default Gateway
S1	VLAN 1	192.168.1.11	255.255.255.0	N/A
S2	VLAN 1	192.168.1.12	255.255.255.0	N/A
PC-A	NIC	192.168.10.3	255.255.255.0	192.168.10.1
PC-B	NIC	192.168.10.4	255.255.255.0	192.168.10.1

**Result:**

The Simulate Virtual LAN configuration using CISCO Packet Tracer Simulation has been suceessfully executed