

## **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.



**Result:**

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

