VIRTUAL LAN

a) Simulate Virtual LAN configuration using CISCO Packet Tracer :

   Part A : Build the network and configure basic device setting

   Step1 : Build the network as shown in topology.

   a) Drag switch S1 and S2.
   b) Place PC-A and PC-B.
   c) Connect copper straight through cables.
   d) Connect console cables from PC-A to S1.

   Step 2 : Configure basic settings for each switch

   Step 3 : Configure PC hosts

   Step 4 : Test connectivity

   Part B : Create VLAN on the switch

   Step 1 : Create VLAN on S1

   Step 2 : Assign VLAN's to the correct switch interface

   Part C : Maintain VLAN port assignments and the VLAN database.

   Step 1 : Assign a VLAN to multiple interfaces.
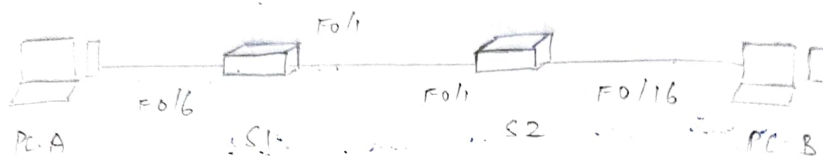
   Step 2 : Remove a VLAN assignment from interface.

   Step 3 : Remove a VLAN id from database.

Part D :

Step 1 : Vse the DTP to initiate trunking on F0/1

Step 2 : Manually configure trunk interface F0/1

b) Configuration of Wireless LAN using Packet Tracer :

* Configure static IP on PC and Wireless router.
* Set SSID to Mother network.
* Set IP address of router to 192.168.0.1
* PC0 to 192.168.0.2 to 192.168.0.3 and PC 2 to 192.168.0.4
* Secure your network by configuring WAP Key on router.
* Connect PC by using WAP Key.

Steps :

1. In administrative tab, set username and password to admin.

2. Go to wireless tab, set SSID to mother network.

3. Under wireless security, set security mode to WEP, key 1 to 0123456789.

4. Configure static IP for each PC.

5. Connect each PC to the wireless router

PC > Desktop > PC wireless > Connect >
    Refresh > enter Key 0123456789 > Connect

6. Repeat for PC1 and PC2.

Result :

Thus, the Virtual and Wireless LAN implementation in CISCO packet traces has been completed successfully.