National School of Business Management

**LAB Sheet 03**

**Lab 03 Connect multiple VLAN through Trunk port**



**Note :- please reset the switch by write erase command before you start**

**Step1. Create VLAN numbers**

Create a VLAN and give an appropriate name to the VLAN

The name them in the given format

VL01XX (XX is the Group number in two digits eg group 2 will implement VL0102

**Step2 Assign IP**

* Assign an Interface IP to the created VLAN

Ip interface must be in the following format on IPv4

10.1.X.254 where the group number in single digit eg group 3 will configure it as 10.1.3.254

**Step3 Testing**

* Assign two number of ports for the created VLANs respectively (switch access port)
* Port 1 to be in the VLAN
* Connect your PCs to assigned ports (physically connect through UTP cables)
* Do the IP Configurations on the PCs?
* Check the connectivity between PCs (**ping** command)

**Step 4 create a trunk port**

* You may create a trunk port (port 10 ) and assign the VLAN .
* Assign the nearest groups VLAN too.
* Connect the switch with the other group switch using port 10 configure the port 2 with other group vlan access point ,connect it using a UTP and test it.
* Please share your VLAN with the other group and test it too

You may use the following commands to carry out the task

|  |  |  |
| --- | --- | --- |
| No | Disruption | command |
| 01 | Switch to configuration mode – configuration terminal | Config t |
| 02 | Switch to enable mode of a switch /router | Enable |
| 03 | To go to VLAN configurations | vlan |
| 04 | Change name Name | name |
| 05 | To Access Interface commands | interface |
| 06 | Assign the port to a VLAN. Valid VLAN IDs are 1 to 4094. | switchport access vlan |
| 07 | Define the VLAN membership mode for the port (Layer 2 access port). | switchport mode access |
| 08 | Define the VLAN membership mode for the port (Layer 2 trunk port). | switchport mode trunk |
| 09 | IP address for the interface | Ip Address x.x.x.x y.y.y.y |