LAB-11

- Objective : To construct a VLAN and make the PC's communicate among a VLAN.

- Topology :

Router 0

193.168.1.1   193.168.2.1

Switch

PC 0   PC 1   PC 2   PC 3

193.168.1.2   193.168.1.3   193.68.2.2   ...

DG : 193.168.1.1   DG : 193 ...
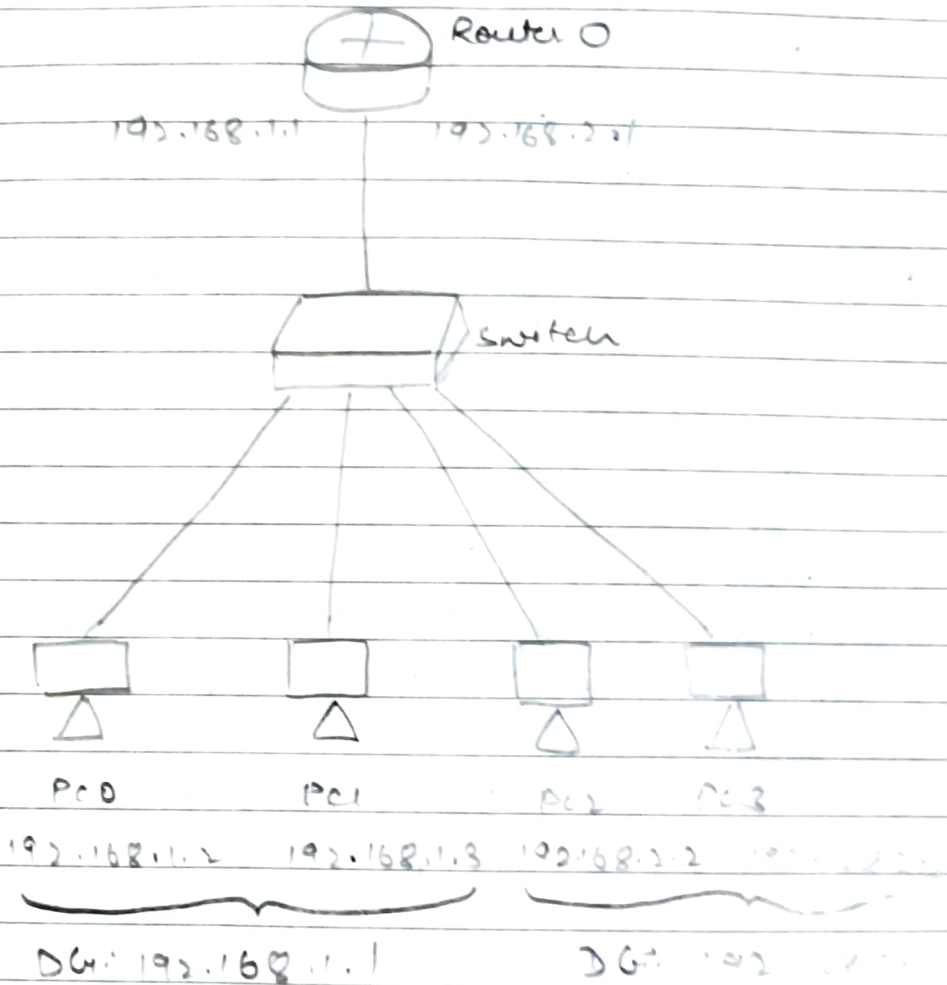
- Procedure :
i) Create a topology with 4 PCs, 1 Router and 1 switch as shown above.

ii) Assign IP address as shown in the topology.

iii) Go to the switch → VLAN Database to configure the VLAN. Give VLAN number and VLAN name, add it.

iv) Select the interface ie fastethernet 0/1 (near the switch from router) and make it trunk.
(VLAN trunking allows switches to forwards frames from different VLAN over a single link called trunk)

v) To make router understand VLAN. Go to config tab of router, select VLAN database, enter the number and name of VLAN created.
Go to CLI
Router (vlan) #exit
Router # config t
Router (config)# interface fastether 0/0.1
Router (config)#

#encapsulation dot1q 2
ip address 192.168.2.1 255.255
no shut
exit
exit

- Observation
- Proper trunk configuration is established make VLAN work properly
- Ping from one VLAN to another works properly.