

## Experiment - 16

Aim VLAN (Virtual Local area Network)  
Configuration in cisco packet tracer.

procedure.

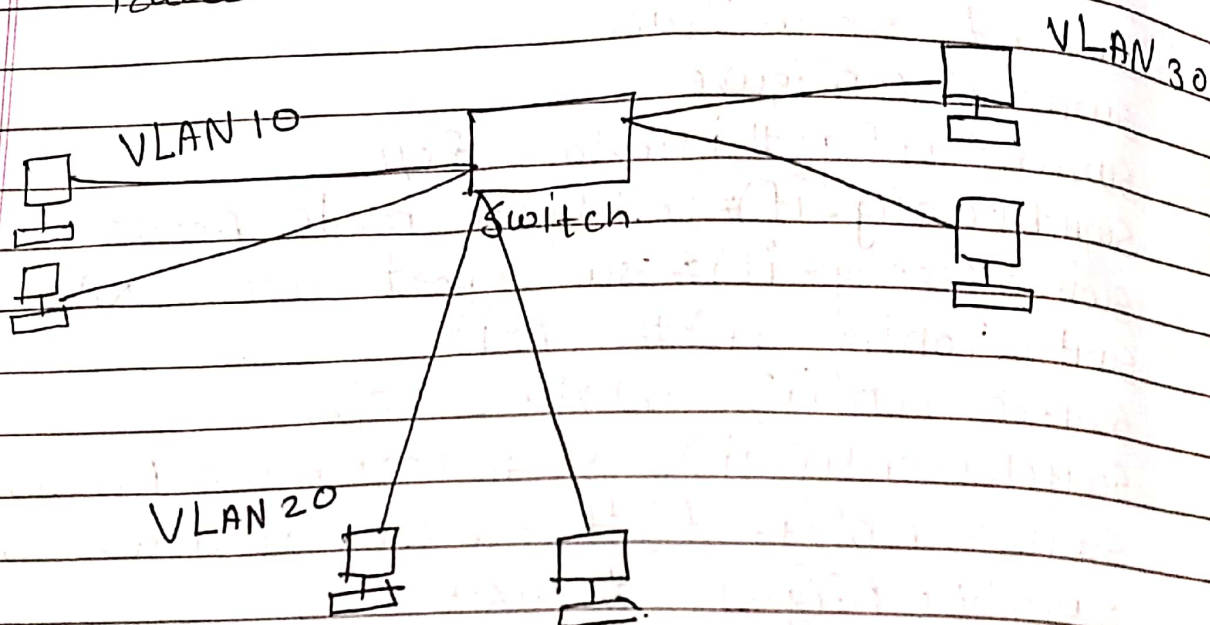
Apparatus → Cisco packet tracer software.

procedure →

step 1 - select the devices given below.

Sr.No.	Device Name	quantity.
1	PC	6
2	Switch	1

step 2 A Network topology is created in cisco packet tracer.



step 3 Now we configure PC by using Assigning IP address

~~see~~ IP address table

S.No	Device	IP address	default gateway
1	Pc0	192.168.10.2	192.168.10.1
2	Pc1	192.168.10.3	192.168.10.1
3	Pc2	192.168.10.4	192.168.10.1
4	Pc3	192.168.10.5	192.168.10.1
5	Pc4	192.168.10.6	192.168.10.1
6	Pc5	192.168.10.7	192.168.10.1

Step 4: click on switch & open CLI & start configuration

Switch> enable

Switch# config t

Switch(config)# vlan 10

Switch(config-vlan) name HR

Switch(config-vlan) exit

Switch(config)# vlan 20

Switch(config-vlan) name IT

Switch(config-vlan) exit

Switch(config)# vlan 30

Switch(config-vlan) name info

Switch(config-vlan) exit

Switch(config)# exit

Switch# show Vlan

Switch# configure

Switch(config)# interface f0/1

Switch(config-if)# switchport mode Access

Switch(config-if)# switchport access vlan 10

Switch(config-if)# exit

Switch(config)# interface f0/2

Switch(config-if)# switchport mode Access

Switch(config-if)# switchport access Vlan 10

Switch(config-if)# exit

Switch(config)# interface f0/3

Switch(config-if)# switchport mode Access

Switch(config-if)# switchport access vlan 20

Switch(config-if)# exit

Switch(config)# interface f0/4

Switch(config-if)# switchport mode Access

Switch(config-if)# switchport access vlan 20

Switch(config-if)# exit

Switch(config)# interface f0/5

Switch(config-if)# switchport mode Access



switch(config-if)# switchport access Vlan 30  
switch(config-if)# exit  
switch(config)# interface f0/6  
switch(config-if)# switchport ~~acc~~ mode access  
switch(config-if)# switchport access Vlan 30  
switch(config-if)# exit  
switch(config)# do write memory

Step 5: click on PC0 then open Command Prompt.  
by using ping command ~~then~~ check  
the Vlan 10 - communicate with Vlan 20  
or Vlan 30  
check all.  
it will show Result.