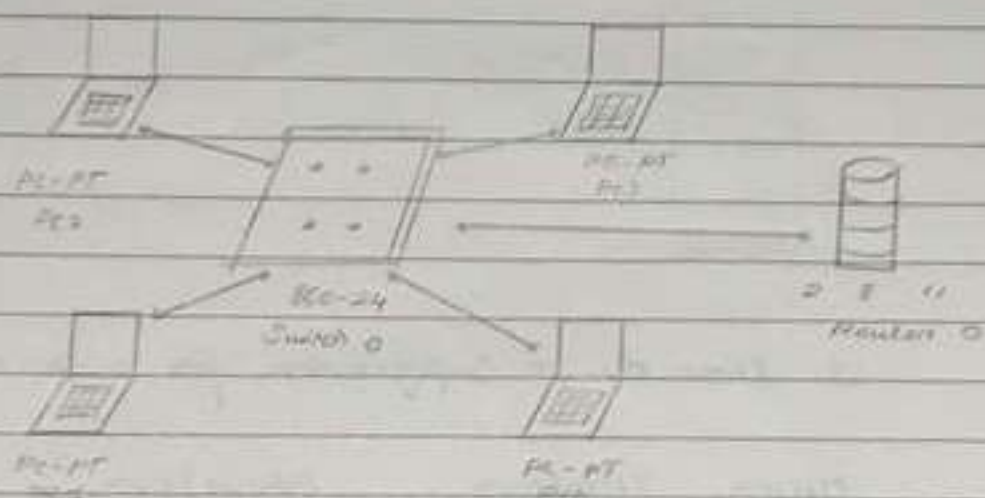




Algo: Simulate Virtual LAN Configuration using Cisco Packet Tracer Simulation.

Packet tracer - Configure VLAN's and trunking



Reflection Questions:

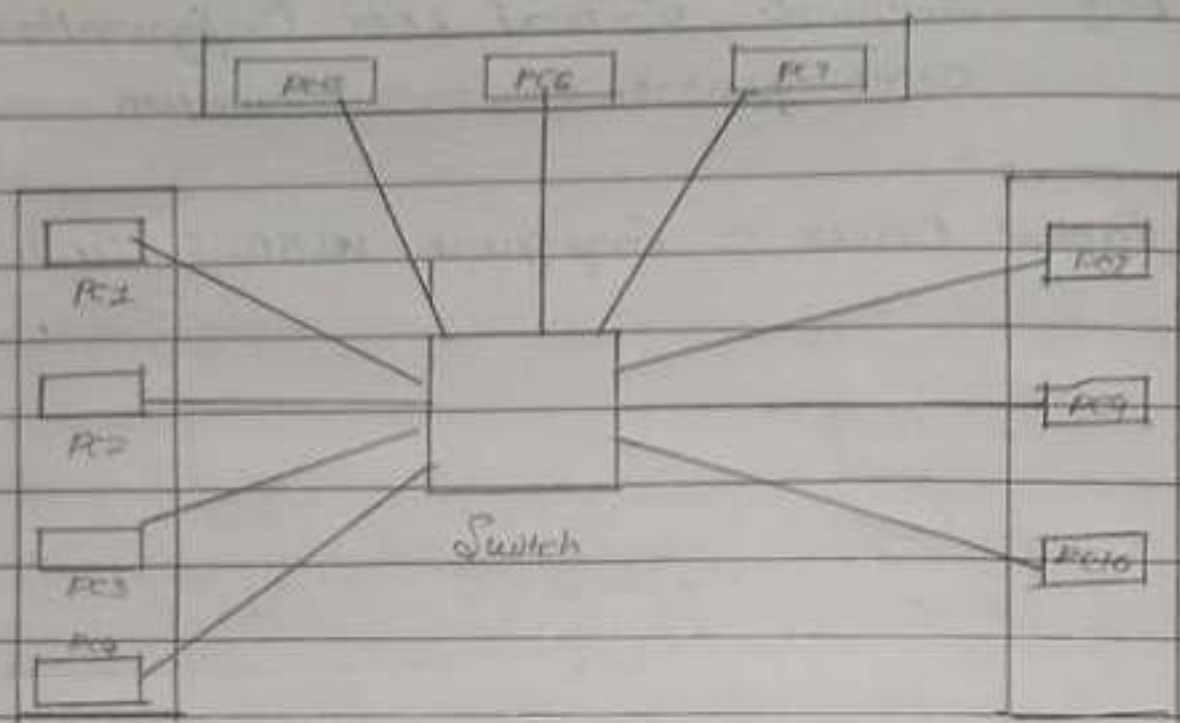
- 1] What is needed to allow hosts on VLAN 10 to communicate to hosts on VLAN 99?

You need to layer device (router or layer 3 switch) to enable inter-VLAN routing and configure VLAN routing and configure VLAN interfaces with IP addresses for both VLAN's. Ensure that ACLs allow traffic between the VLAN's and that hosts are set the appropriate default gateways.

- 2] What are some primary benefits that an organization can receive through effective use of VLAN's?

Effective use of VLAN's improve network segmentation enhancing security and reducing broadcast traffic.

Ca) Draw and label the VLAN for Qb



Cb) Show the IP Configuration for each device.

Device	IP Address	Subnet Mask	Default gateway
PC1	192.168.20.2	255.255.255.0	192.168.20.1
PC2	192.168.20.3	255.255.255.0	192.168.20.1
PC3	192.168.20.4	255.255.255.0	192.168.20.1
PC4	192.168.20.5	255.255.255.0	192.168.20.1
PC5	192.168.20.6	255.255.255.0	192.168.20.1
PC6	192.168.20.7	255.255.255.0	192.168.20.1
PC7	192.168.20.8	255.255.255.0	192.168.20.1
PC8	192.168.20.9	255.255.255.0	192.168.20.1
PC9	192.168.20.10	255.255.255.0	192.168.20.1
PC10	192.168.20.11	255.255.255.0	192.168.20.1

cc) write the commands used for VLAN config in Switch.

Switch > enable

Switch # configure terminal

Switch (Config) # VLAN 10

Switch (Config-VLAN) # name Robotics

Switch (Config-VLAN) # exit



Switch Config # Interface range 1/1 - 10
Switch Config-if-range # switch port mode access
Switch Config-if-range # switch port access vlan 10
Switch Config-if-range # exit

Result:

This, the simulation of virtual LAN Configuration using Cisco Packet Tracer has been performed and the O/P is verified.



AIM: Configuration of wireless LAN using Cisco packet tracer.

Qa) what is SSID of a wireless source?

SSID (Service Set Identifier) is the name of a wireless network. It is used to uniquely identify a wireless LAN.

Qb) what is a Security key in a wireless router?

A Security key is a wireless router password or encryption key used to secure a wireless network.

Result:

Thus, a wireless LAN has been configured using Cisco packet tracer and the O/P is verified.

