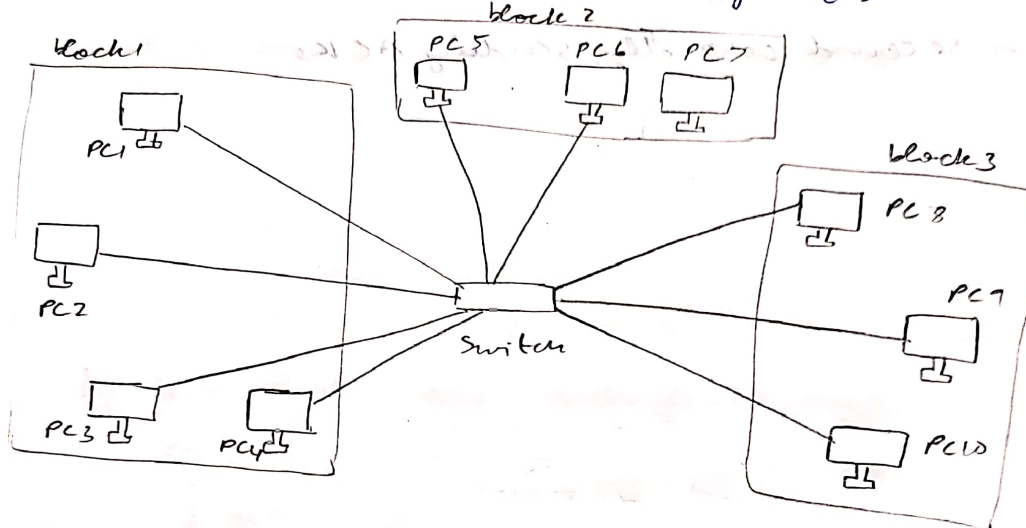


Aim:- a) Simulate virtual LAN configuration using CISCO Packet Tracer simulation.

### Student Observation Questions

a) Draw and label the VLAN for Q6.



b) 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

c) write the commands used for VLAN configuration in switch.

Switch > enable

Switch # configure terminal

Switch(Config) # vlan 10

Switch(Config-vlan) # name Robotics

Switch(Config-vlan) # exit

Switch(Config) # interface range f0/1-10

Switch(Config-if-range) # switchport mode access

Switch(Config-if-range) # switchport access vlan 10

Switch(Config-if-range) # exit

### Result

Thus, the simulation of virtual LAN configuration using CISCO Packet Tracer has been performed and the output is verified.

*Signature*  
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AIM :- b) Configuration of wireless LAN using  
CISCO Packet Tracer.

### Student Observation Questions

a) What is SSID of a wireless router?

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

b) What is a security key in a wireless router?

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

### Result

Thus, a wireless LAN has been configured using CISCO Packet Tracer and the output is verified.

Daman  
9/10/24