## **Configuration of Switches:** SWITCH SW1: conf t int Fa1/0 switchport mode trunk switchport trunk encapsulation dot1q exit int Fa1/4 switchport mode trunk switchport trunk encapsulation dot1q exit int Fa1/5 switchport mode trunk switchport trunk encapsulation dot1q exit int Fa1/1 switchport mode access switchport access vlan 2 exit int Fa1/2 switchport mode access switchport access vlan 2 exit int Fa1/3 switchport mode access switchport access vlan 2

exit

```
int Fa1/4
switchport access vlan 3
end
SWITCH SW2:
conf t
int Fa1/4
switchport mode trunk
switchport trunk encapsulation dot1q
exit
int Fa1/1
switchport mode access
switchport access vlan 3
exit
int Fa1/2
switchport mode access
switchport access vlan 3
exit
int Fa1/3
switchport mode access
switchport access vlan 3
exit
```

```
int Fa1/4
switchport access vlan 2
end
SWITCH SW3:
conf t
int Fa1/5
switchport mode trunk
switchport trunk encapsulation dot1q
exit
int Fa1/1
switchport mode access
switchport access vlan 4
exit
int Fa1/2
switchport mode access
switchport access vlan 4
exit
int Fa1/3
switchport mode access
switchport access vlan 4
```

```
exit
int Fa1/5
switchport access vlan 2
end
Configuration of Router Interface
ROUTER R1:
conf t
int Fa0/0.2
encapsulation dot1Q 2
ip address 10.0.2.254 255.255.255.0
end
conf t
int Fa0/0.3
encapsulation dot1Q 3
ip address 10.0.3.254 255.255.255.0
end
conf t
int Fa0/0.4
encapsulation dot1Q 4
ip address 10.0.4.254 255.255.255.0
end
```

```
conf t
int Fa0/0
no shut
end
Configuration of PC's:
PC1:
ip 10.0.2.1/24 10.0.2.254
save
PC2:
ip 10.0.2.2/24 10.0.2.254
save
PC3:
ip 10.0.2.3/24 10.0.2.254
save
PC4:
ip 10.0.3.1/24 10.0.3.254
save
PC5:
ip 10.0.3.2/24 10.0.3.254
save
PC6:
ip 10.0.3.3/24 10.0.3.254
save
PC7:
ip 10.0.4.1/24 10.0.4.254
save
PC8:
ip 10.0.4.2/24 10.0.4.254
save
```

PC9:

ip 10.0.4.3/24 10.0.4.254

save