Institute of Engineering & Management Department of Computer Science & Engineering Network Lab for 3rd year 6th semester 2019 Code: CS692

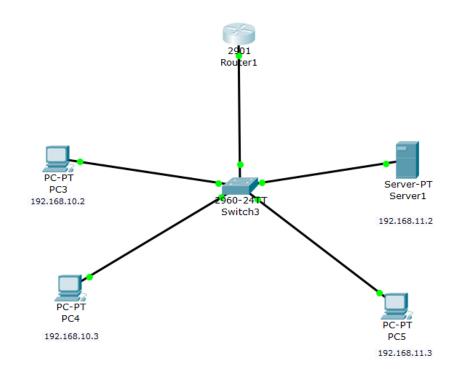
Date:15/04/19

WEEK-8

Assignment-1

Problem Statement: Implementation of VLAN.

Screen-Shot:



CLI code:

Switch:

Switch en
Switch vlan database
Switch (vlan) #vlan 2 name student
VLAN 2 added:
Name: student
Switch (vlan) #vlan 3 name faculty
VLAN 3 added:
Name: faculty
Switch (vlan) #exit
Switch (vlan) #exit
Switch (configure terminal
Switch (config) #interface range fastEthernet 0/1 - fastEthernet 0/2
Switch (config-if-range) #switchport mode access
Switch (config-if-range) #switchport access vlan 2
Switch (config-if-range) #exit

Name: Ranajit Roy; Roll: 47; Sec: A

```
Switch (config) #interface range fastEthernet 0/3 - fastEthernet 0/6
Switch (config-if-range) #switchport mode access
Switch (config-if-range) #switchport access vlan 3
Switch (config-if-range) #exit
Switch (config) #exit
Switch#
Switch#showvlan
VLAN Name Status Ports
1 default active Fa0/7, Fa0/8, Fa0/9, Fa0/10
Fa0/11, Fa0/12, Fa0/13, Fa0/14
     Fa0/15, Fa0/16, Fa0/17, Fa0/18
     Fa0/19, Fa0/20, Fa0/21, Fa0/22
     Fa0/23, Fa0/24, Gig0/1, Gig0/2
2 student active Fa0/1, Fa0/2
3 faculty active Fa0/3, Fa0/4, Fa0/5, Fa0/6
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
Switch#config terminal
Switch (config) #interface fastEthernet 0/5
Switch(config-if) #switchport mode trunk
Switch(config-if)#exit
```

Router:

```
Router>en
Router#configterminal
Router(config) #interface gigabitEthernet 0/0
Router(config-if) #no shutdown
Router(config-if)#exit
Router(config) #interface gigabitEthernet 0/0.1
Router(config-subif) #encapsulation dot1g 2
Router(config-subif) #ip address 192.168.10.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif) #interface gigabitEthernet 0/0.2
Router(config-subif) #encapsulation dot1q 3
Router(config-subif) #ip address 192.168.11.1 255.255.255.0
Router(config-subif) #no shutdown
Router(config-subif) #end
Router#
Router#wr
Building configuration...
Router#showip interface brief
Interface IP-Address OK? Method Status Protocol
GigabitEthernet0/0 unassigned YES unset up up
GigabitEthernet0/0.1 192.168.10.1 YES manual up up
GigabitEthernet0/0.2 192.168.11.1 YES manual up up
GigabitEthernet0/1 unassigned YES unset administratively down down
Vlan1 unassigned YES unset administratively down down
Router#
```