

VLAN Assignment

NAME: SAURABH PUNDIR

SEC: O

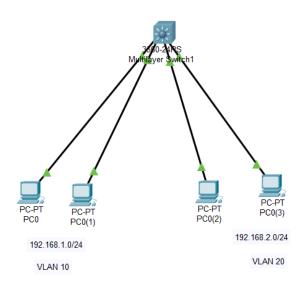
ROLL: 28

AIM:

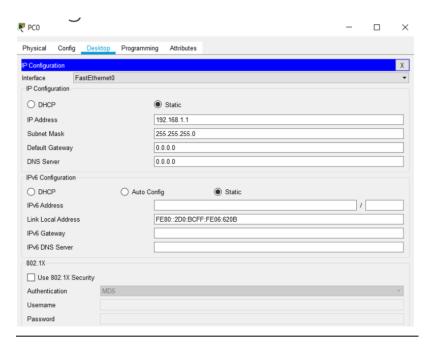
1. Inter VLAN Routing

STEP 1: Set up the network topology

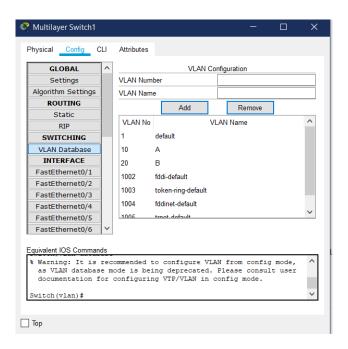
a. Create a topology as shown below



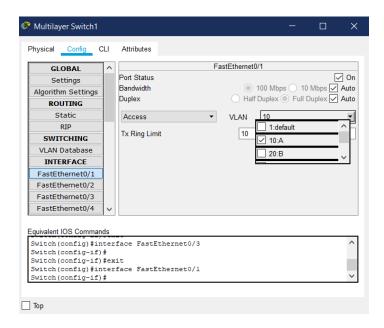
b. Assign static Ips to every device



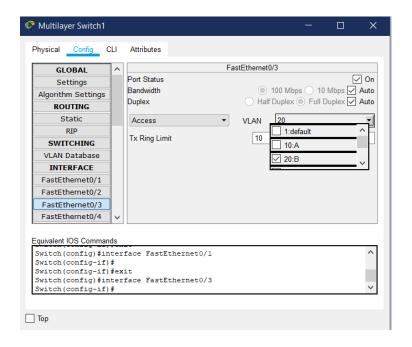
d. Double Click on the switch, in order to add two new VLANs 10 and VLANs 20 as shown



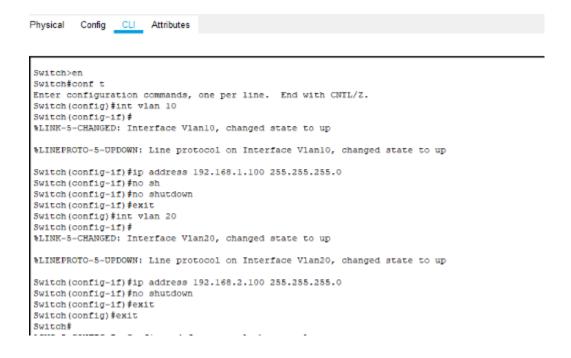
e. Assign FastEtherneto/1 and FastEtherneto/2 with **vlan**= **10:**A



f. Assign FastEtherneto/3 and FastEtherneto/4 with **vlan=10:B**



g. As we are done with topology so now we'll do switch configuration



h. Now check configuration by following command

```
Multilayer Switch1
  Physical Config CLI Attributes
  %SYS-5-CONFIG_I: Configured from console by console
  Switch#show ip interface brief
                          IP-Address
  Interface
FastEthernet0/1
                                          OK? Method Status
                                                                             Protocol
                                          YES unset up
                          unassigned
   FastEthernet0/2
                          unassigned
                                          YES unset up
  FastEthernet0/3
                          unassioned
                                          YES unset up
   FastEthernet0/4
                          unassigned
  FastEthernet0/5
                          unassioned
                                          YES unset down
                                                                             down
   FastEthernet0/6
                          unassigned
                                          YES unset down
   FastEthernet0/7
                          unassigned
                                          YES unset down
                                                                             down
  FastEthernet0/8
                                          YES unset down
                          unassigned
                                                                             down
   FastEthernet0/9
                                          YES unset down
   FastEthernet0/10
                          unassigned
                                          YES unset down
                                                                             down
   FastEthernet0/11
                                          YES unset down
                          unassigned
  FastEthernet0/12
                          unassigned
                                          YES unset down
                                                                             down
   FastEthernet0/13
                          unassigned
                                          YES unset down
                                                                             down
   FastEthernet0/14
                          unassigned
                                          YES unset down
                                                                             down
  FastEthernet0/15
                          unassigned
                                          YES unset down
                                                                             down
   FastEthernet0/16
   FastEthernet0/17
                          unassigned
                                          YES unset down
                                                                             down
   FastEthernet0/18
                          unassigned
                                          YES unset
   FastEthernet0/19
                          unassigned
                                          YES unset down
                                                                             down
                                          YES unset down
  FastEthernet0/20
                          unassigned
   FastEthernet0/21
                          unassigned
                                          YES unset down
                                                                             down
  FastEthernet0/22
                                          YES unset down
                          unassigned
                                                                            down
   FastEthernet0/23
                          unassigned
                                          YES unset down
  FastEthernet0/24
                          unassioned
                                          YES unset down
                                                                            down
  GigabitEthernet0/1
                                          YES unset down
                          unassigned
  GigabitEthernet0/2
                          unassigned
                                          YES unset down
                                                                             down
   Vlanl
                                          YES unset administratively down down
                          unassigned
                          192.168.1.100 YES manual up
192.168.2.100 YES manual up
  Vlan10
  Vlan20
  Switch#ip routing
   % Invalid input detected at '^' marker.
  Switch#configure terminal
  Enter configuration commands, one per line. End with {\tt CNTL/Z.}
  Switch (config) #ip routing
   Switch (config) #exit
   Switch#
   %SYS-5-CONFIG_I: Configured from console by console
```

STEP 2: Checking the INTER VLAN ROUTING

a.__By sending simple PDU or by PING