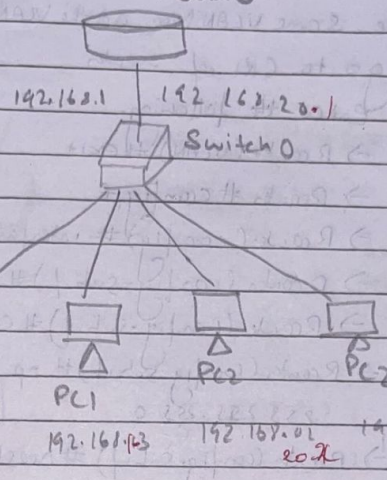
EXPERIMENT-9

Q) To construct a VLAN and make the PC's communicate among a VLAN

LAB-8

Aim: To configure VLAN Database

Topology:-



Procedure:-

1) Connect 4 pc's with a switch (2960) and also connect a router (1841) &
2) Ensure PC0 and PC1 are set as 192.168.1.2 and 192.168.1.3 and are placed towards the left side end of the switch and the router IP is set as 192.168.1.1
3) The PC2 and PC3 IP's are set as 192.168.2 and 192.168.20.3 and are placed at the right most end of switch.
4) Select switch and go to config tab and select a VLAN database
5) Enter the new VLAN number as 203 and name as LRVAN and add it to the database
6) Select the interface nearer to the fast Ethernet i.e. 4/0 and select trunk.

7) Now add the new VLAN database to the trunk option

8) Goto router and select the VLAN database and enter the same VLAN No and the VLAN name.

9) Now go to CLI of router and enter the following.

→ Router(VLAN)#exit

→ Router#config t

→ Router(config)#interface fa 0/0.1

→ Router(config-subif)#

→ Router(config-subif)#encapsulation dot1Q 20

→ Router(config-subif)#ip address 192.168.20.1 255.255.255.0

→ Router(config-subif)#no shut

→ Router(config-subif)#ext

10) Ensure all the database are selected then Ping from PC0 to PC2

Output:

PC> Ping 192.168.20.2

Pinging 192.168.20.2 with 32 byte of data

Request timed out

Reply from 192.168.20.2 bytes=32 time=0 TTL=127

" " " " " "

" " " " " "

Ping Statistics for 192.168.20.2

Packets sent=4, recieved=3, lost=1 (25% loss)

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9/23

TOPOLOGY & OUTPUT