WEEK 9

To construct a VLAN and make a pc communicate among VLAN.
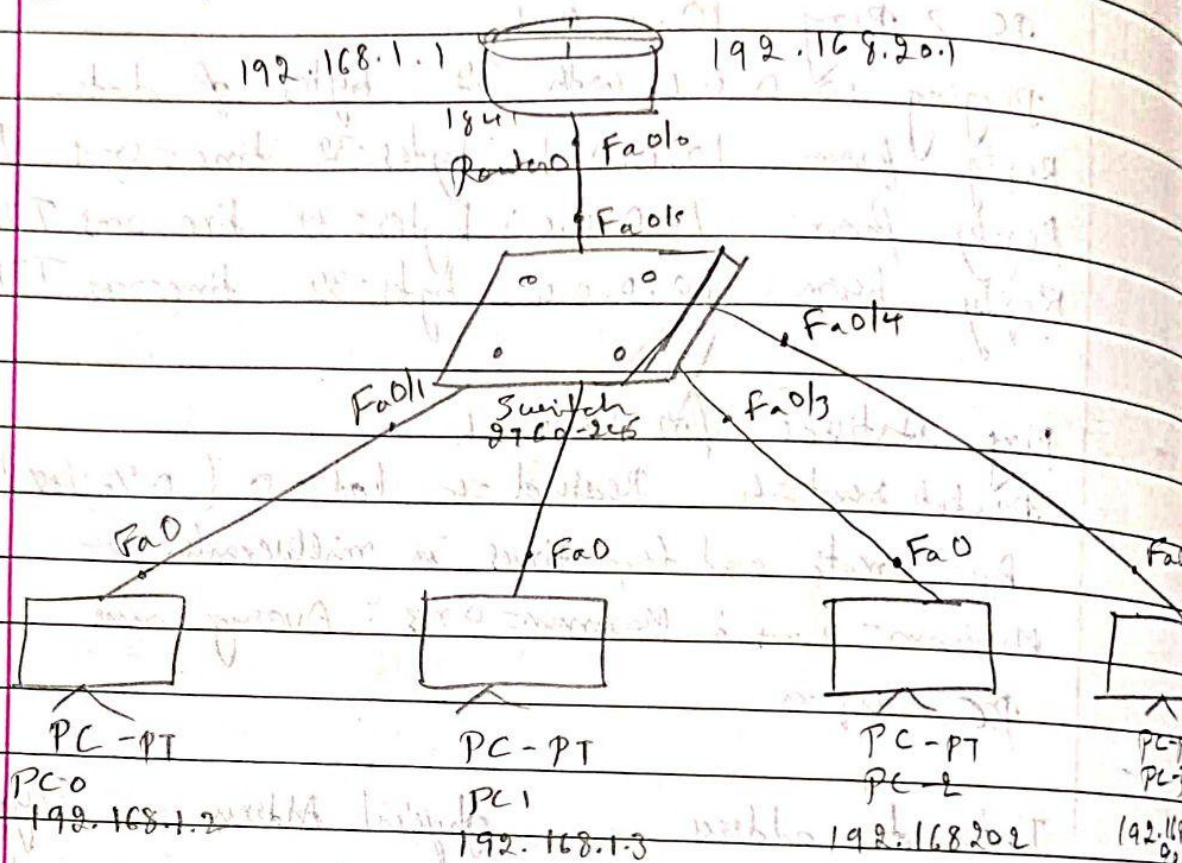
OBSERVATION:

LAB-9

AIM :

To construct a VLAN and make a PC communi
among VLAN.

TOPOLOGY :

192.168.1.1   192.168.20.1

184

Router0   Fa0l0

Fa0lr

Fa0l4

Fa0l1   Switch   Fa0l3
        2960-24b

Fa0   Fa0   Fa0   Fa

PC-PT   PC-PT   PC-PT   PC-
PC-0   PC1   PC-2   PC-
192.168.1.2   192.168.1.3   192.168.202   192.16

Procedure :

- Create a topology as shown above choi. 184 only
  and 2960-24 PT switch.
- Set up the IP address of the router and 4pc's
  respectively we use class c two address also

- Go to router ⇒ config tab and delet VLAN database and enter the name VLAN & no. 2 created
- Go to router ⇒ CLI and type the follaing command.
  Step 1 : config T
  Step 2 : interface fa 0/0
  Step 3 : IP address 192.168.1.1 255.255.255.0
  Step 4 : No shut
  Step 5 : Exit
  Step 6 : config T
  Step 7 : interface fa 0/0.1
  Step 8 : Excapsulation dot 1q2
  Step 9 : ip address 199.168.20.7 255.355.250
  Step 10 : No shut
  Step 11 : Exit.
- Ping message from PC to another VLAN PC.

Ping - output.

Packet trace pc command line 1.0
PC 7 ping 192.168.20.3
Pinging 192.168.20.3 with 32 bytes of data:
Request timed out
Reply from 192.168.20.3 : bytes=32 time=om TTL=B
Reply from 199.168.20.3 bytes=32 time=5m TTL=126
Reply from 192.168.20.3 bytes=32 time=6m TTL=126
Ping Statistic for 192.168.20.3
Packet sent = 4 Received = 3 lost = 1 (25% loss)

Observation :-

(i) VLAN → Virtual local area Network is any broadcast domain that is partioned and isolated in computed network at the data dink layer.

(ii) It is a virtualized connection that connects and network node from different LAN's to one logical network.

TOPOLOGY:

OUTPUT:


```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127
Reply from 192.168.20.3: bytes=32 time=5ms TTL=127
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25%
loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 5ms, Average = 1ms

PC>
```