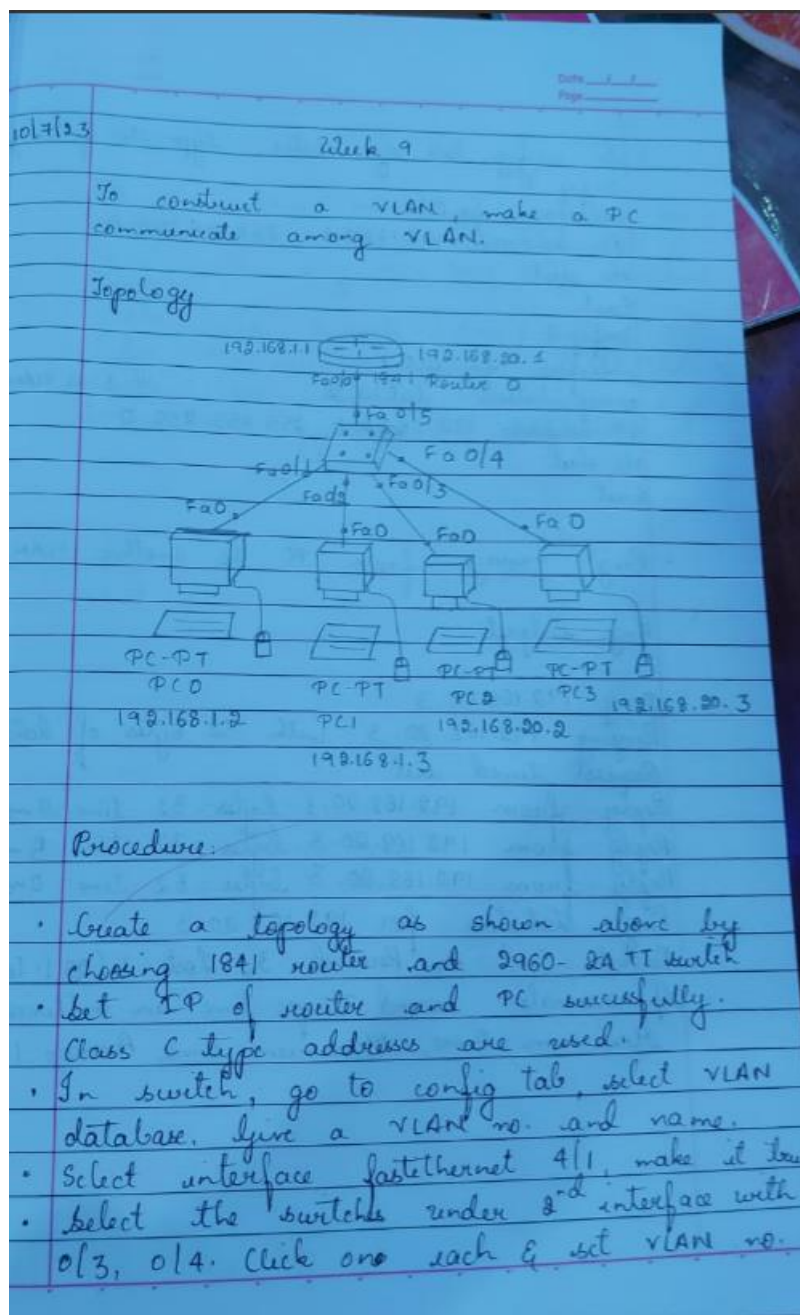


## WEEK 9

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

### OBSERVATION:



In config tab of router, type the following:

```

config T
interface fa 0/0
IP address 192.168.1.1 255.255.255.0
No shut
Exit
config T
interface fa 0/0.1
encapsulation dot1q 2
IP address 192.168.20.1 255.255.255.0
No shut
Exit

```

Ping message from PC to another VLAN

Ping output

```

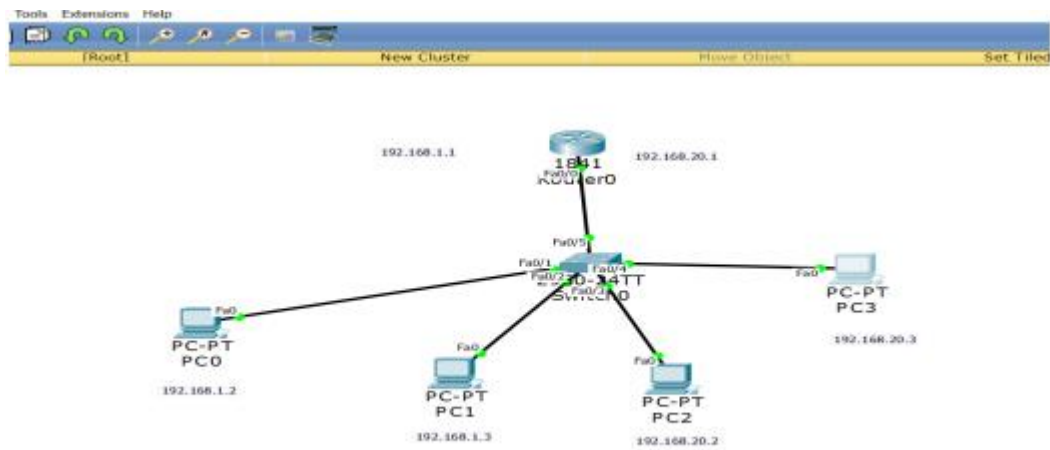
ping 192.168.20.3
Pinging 192.168.20.3 with 32 bytes of data:
Request timed out.
Reply from 192.168.20.3: bytes=32 time=0ms 127
Reply from 192.168.20.3: bytes=32 time=0ms 127
Reply from 192.168.20.3: bytes=32 time=0ms 127
Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

```

Observation:

- We can have one device on one VLAN, another on another VLAN connected to same switch. They can have only broadcast traffic.
- VLANs use subnets / class C address.
- Inter-VLAN routing gives a flexible tool to divide networks which have a potential to enhance security and performance.

Topology :



Output :

