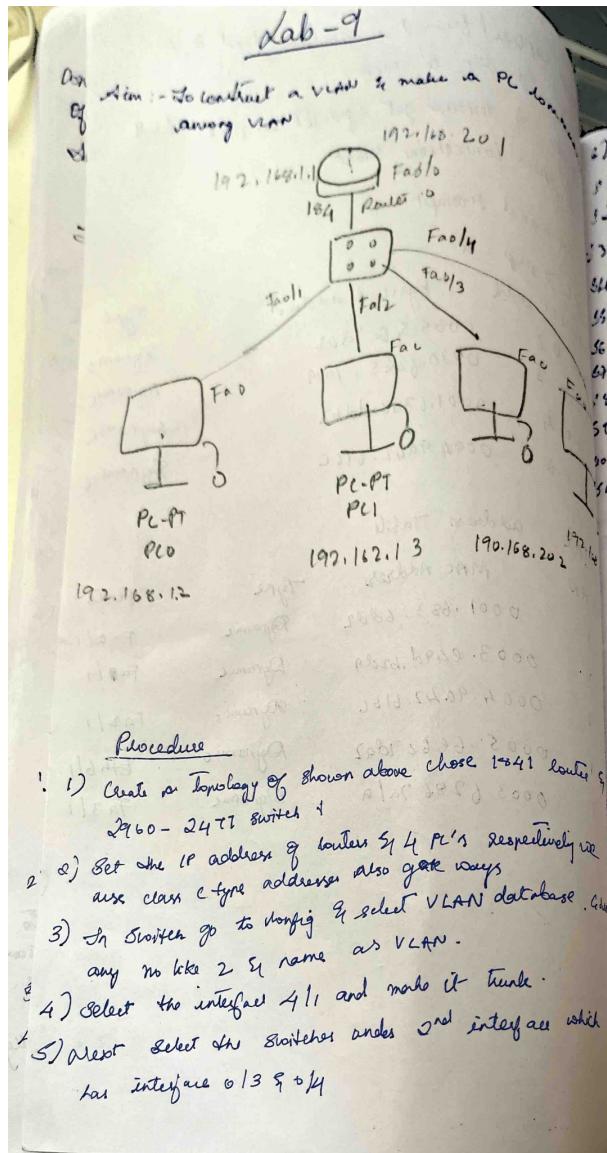


# WEEK 9

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

## OBSERVATION:



1) Go to router → CUI to type the following commands  
 1.1: config t  
 1.2: interface fa 0/0  
 1.3: IP address 192.168.1.1 255.255.255.0  
 1.4: no shut  
 1.5: exit  
 1.6: config t  
 1.7: interface fa 0/0.1  
 1.8: encapsulation dot1q 2  
 1.9: IP address 192.168.20.1 255.255.255.0  
 1.10: no shut  
 1.11: exit  
 1.12: messages from PC to another VLAN PC  
 1.13: ping output  
 Packet Trace 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  
 Reply from 192.168.20.3 bytes=32 time=0ms TTL=127  
 Ring Gratitutus 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 device on one VLAN & another in another VLAN connected to the same switch.  
 a) Here VLANs doesn't use IP address instead deal with Subnets & class C type address.

## TOPOLOGY and OUTPUT:

PC0

Physical Config Desktop Custom Interface

**Command Prompt**

```
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>|
```

Gcc Packet Tracer Student - C:\Users\ayyash\OneDrive - Sase PU College\Desktop\Athenae\CH\CH\_1\Ayyash.pkt

File Edit Options View Tools Extensions Help

Logical (Ran) New ClassDef Status Objects Set: Titled Backround Timestamp

192.168.1.1  
192.168.1.2  
192.168.1.3  
192.168.20.3

Router0

192.168.20.1

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC3

Event List

Vis.	Time/Load	Last De.	At Dev.	Type	Info
0.004			Switch0	PC2	ICMP
0.005			PC2	Sel0	ICMP
0.006			Switch0	Root	ICMP
0.007			Router0	Sel0	ICMP
0.008			Switch0	PC0	ICMP

Reset Simulation  Constant Delay Captured to: 9.000 s

Play Controls Deck Auto Capture / Play Capture / Forward

Event List Filter - Mobile Events

ACL, ARP, ARP RRO, CDR, DHCP, DRB, DVB, EIGRP, EIGRPv6, FTR, H.323, H.248, H.264, H.265, H.266, H.268, ICMP, ICMPv6, ISAKMP, LAC, MDR, NETFLIX, MTC, OSPF, OSPFv3, PAgP, POTS, RADIOS, RIB, RIBng, RTR, SCDN, SMURF, SSH, SPSTOS, TACACS, TEL, VTP, VRM, VNC, VTP, VTPP

Show All/None

Simulation

Time: 09:28:20.634 | Power Cycle Device: PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Script Editor New Delete

Searches

File Last Stats: Source Destination Type: Call Time: Period: Num: Edit: Delete

Successful PC0 PC2 IC... 0.0000 M 0 Inf... (Delete)