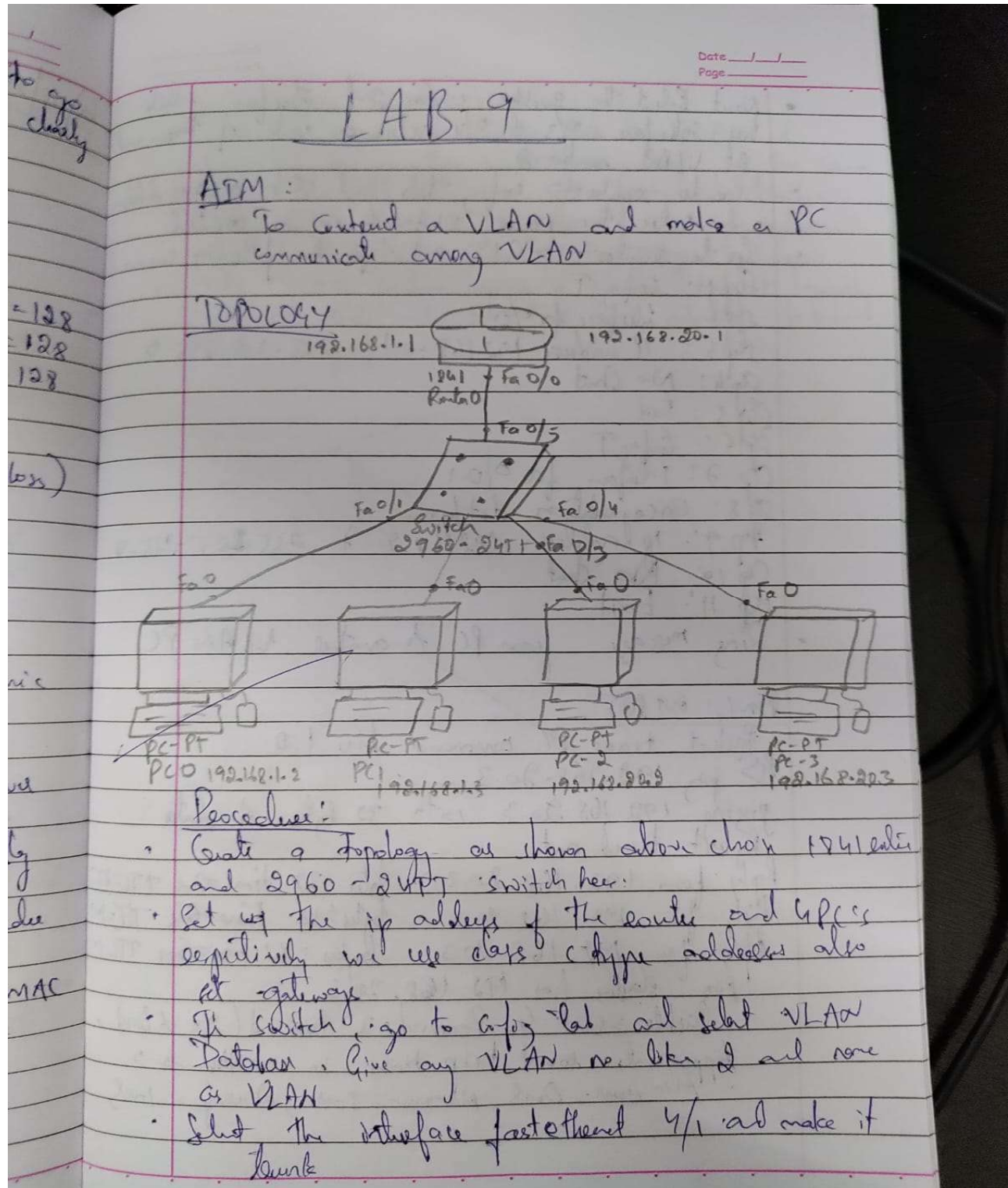# WEEK 9

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

OBSERVATION:

- Next Relect the Switches under 2nd interface which has interface o/3 & o/4 : click on each of them let VLAN number 2.
- Go to router → config Tab and select VLAN database and enter the range VLAN & no.2 created.
- Go to router → CLS and type the following commands

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 : Encapsulation dot 1q2
Step 9 : IP address 192.168.20.7   255.855.245.0
Step 10 : No Shut
Step 11 : Exit.

- Ping message from PC to another VLAN PC

PING - 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 191.168.20.3   bytes=32 time=0ms TTL=127
Reply from 192.168.20.3   bytes=32 time=0ms TTL=127
Ping statics for 192.168.20.3
   Packets : Sent = 4 Received = 3 Lost = 1 (25% loss),
Approximate round trip time in milliseconds :
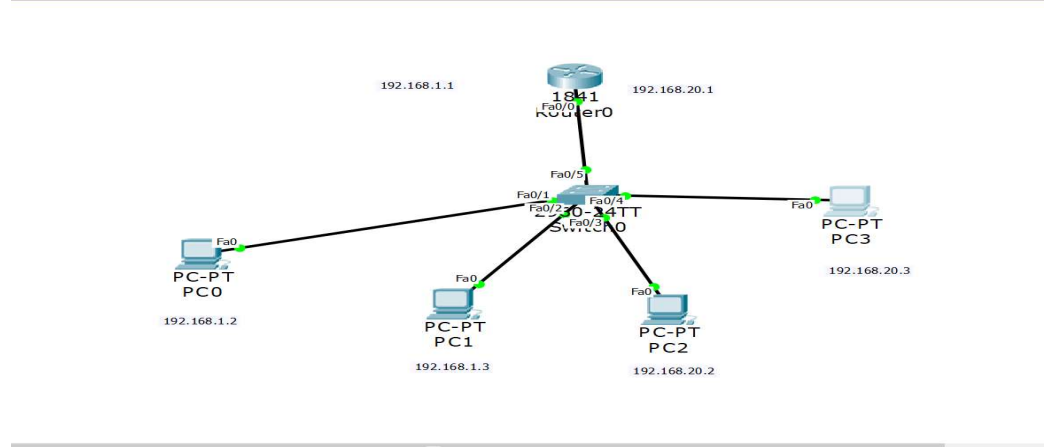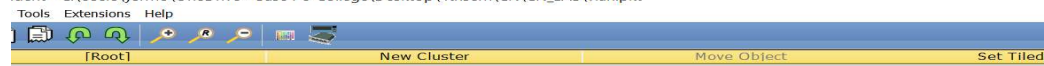   Minimum = 0ms, Maximum = 0ms, Average = 0ms

OBSERVATION

- We can have one device on one VLAN & another on another VLAN connected to the same switch. They will only hear other broadcast traffic from within their VLANS doesn't use ip address instead deal with subnets/ class C type address

- Inter-VLAN routing gives a flexible tool to logically subdivide their network that has potential to enhance security & performance
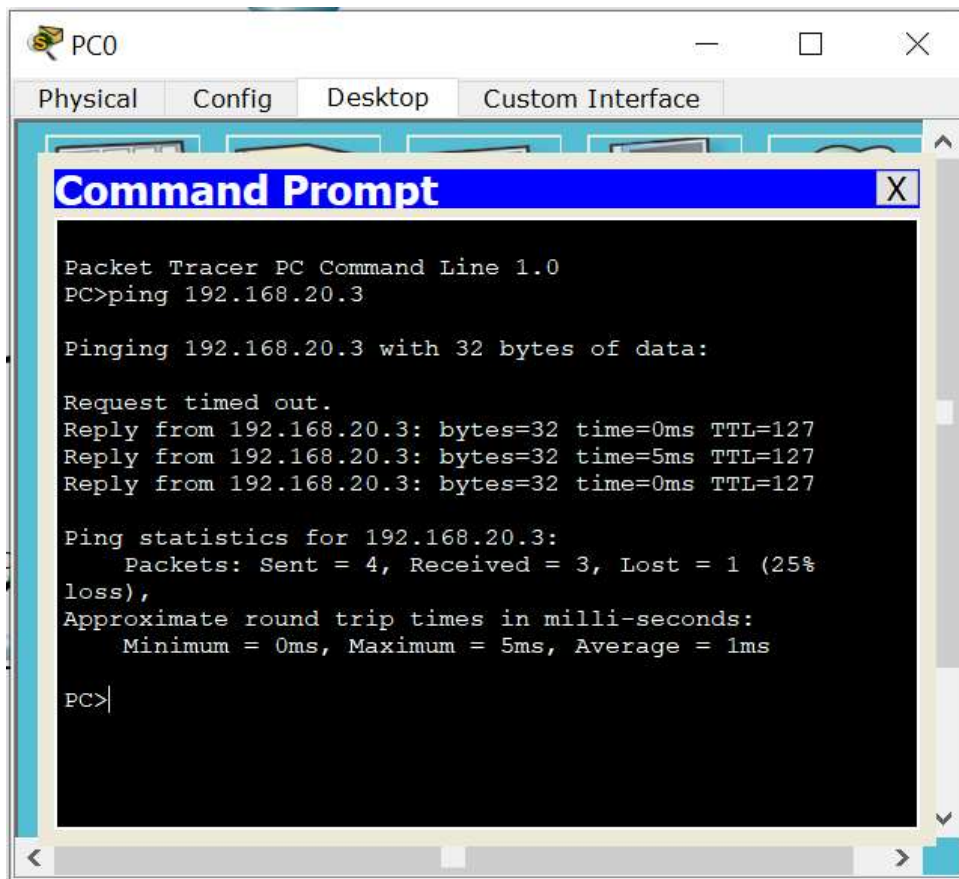
19/8/2023

TOPOLOGY:

192.168.1.1

1841
Fa0/0
Router0

192.168.20.1

Fa0/5

Fa0/1

Fa0/2
Fa0/4
2950-24TT
Switch0
Fa0/3

Fa0

PC-PT
PC3

192.168.20.3

Fa0

PC-PT
PC0

192.168.1.2

Fa0

PC-PT
PC1

192.168.1.3

Fa0

PC-PT
PC2

192.168.20.2