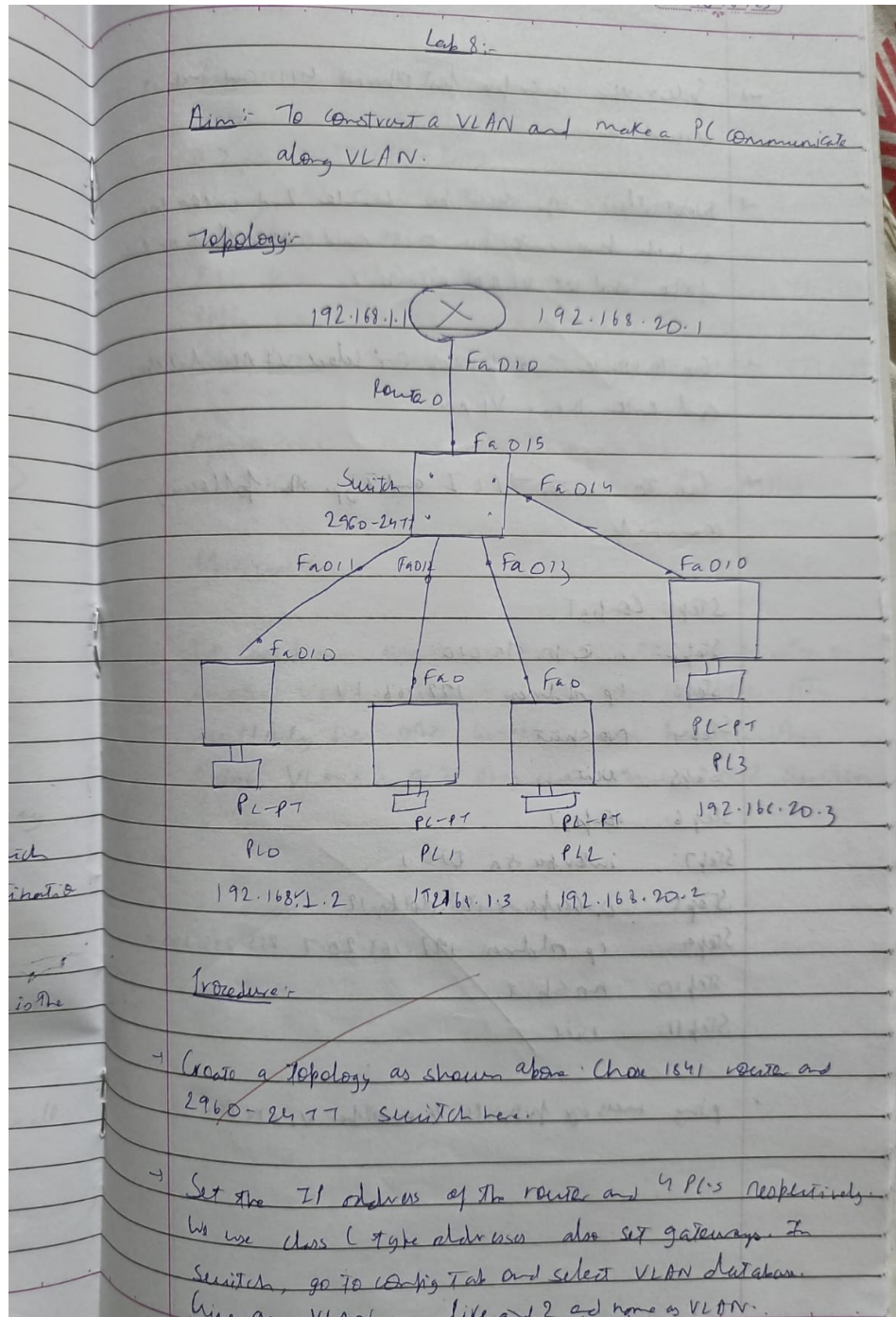


WEEK 9

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

OBSERVATION:



→ Select the interface fast ethernet 4/1 and make it trunk.

→ Next select the switches under 2nd interface which has interface 0/3 and 0/4. Click on each of them and set VLAN number 2.

→ Go to router → Config Tab and select VLAN database and enter name VLAN.

→ Go to router → CLI and type the following commands.

Step 1: ConfigT

Step 2: interface fa 0/0

Step 3: ip address 192.168.1.1

Step 4: no shut

Step 5: exit

Step 6: ConfigT

Step 7: interface fa 0/0.1

Step 8: encapsulation dot1q

Step 9: ip address 192.168.20.7 255.255.255.0

Step 10: no shut

Step 11: exit

• ping message from PC to another VLAN PC.

Ping output:

PC > ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3:

bytes=32 Time=0ms 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

Approximate round trip times in ms:

Minimum: 0ms, Maximum: 5ms, Average: 1ms

Observation:

We can have one device on one VLAN and another on another VLAN connected to the same switch. They will only hear other broadcast traffic from within their VLANs, as if they were connected to 2 switches.

TOPOLOGY:

Cisco Packet Tracer Student - C:\Users\ysrmo\OneDrive - Base PU College\Desktop\4thsem\CN\CN_LAB\vlan.pkt

File Edit Options View Tools Extensions Help

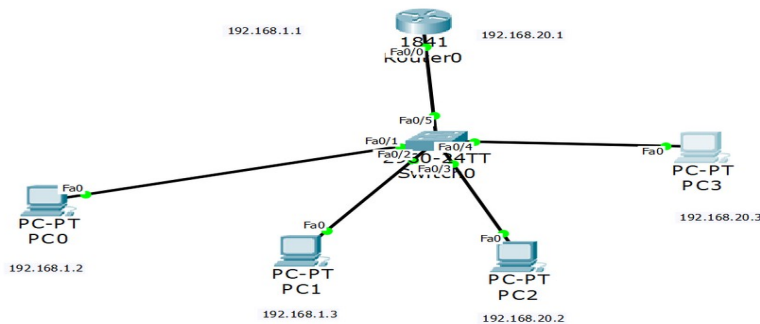


New Cluster

Move Object

Set Tiled Background

Viewport



OUTPUT:

