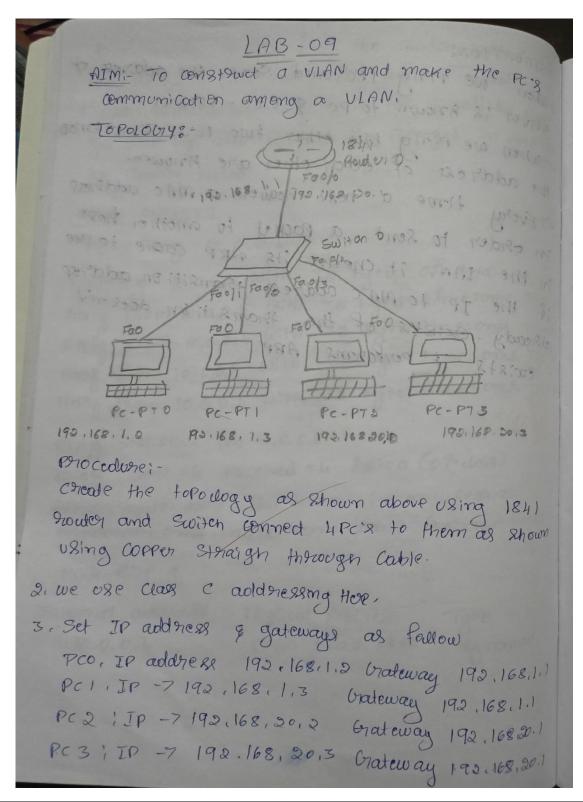
### LAB9

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

### **OBSERVATION:**



1. Goto config tab of Switch
open VLAN database
Set VLAN Number = 20
VLAN name = NEWMAN
Click on add.

5, In Switch vio to PastEthernet 510 under that interfaces as it is connected to house select Thunk and Choose 20, NEWNLAN.

6. For Fa0/3 and Fa0/4 Select 20: NEWLAN and Keepacce 83 as it is.

7. Open config tab in router.

Go to VIAN Database.

Add VIAN Number 20

8. In Router o go to CII mode.

Router & config t

Router (config. if)# in address 192.168,1,1 255,255,255.0
Router (config-if) # No Shut

hower (config - if) exit

Router (config) # init factor.1

Router (config - subif) # encapsulation dofiado

Router (config - subif) # ip address 192.168,20.1 255,255.

Router (config - subif) # ip address 192.168,20.1 255,255.

Rouder (config - Subif) # NO Short

Router (config - Subif) # exit.

Ping OUTPUT:-

Pinging 192, 168, 20,2 with 32 bytes of data.

Reavest timed out.

Reply from 192.168, 20.2; bytes: 32 time=0 mg TIL=15 Reply from 192.168, 20.2; bytes: 32 time=0 mg TIL=15 Reply from 192.168, 20.2; bytes: 32 time=0 mg TIL=15

Ping Statistics for 192, 168, 20, 2

Packets: Sent = 4. Received = 3 Lost = 1 (25% Loss)

APProximate sound thip times in milli Seconds:

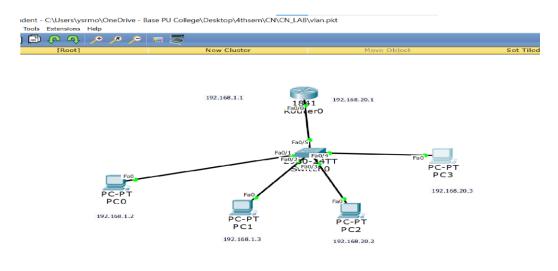
Minimum = 0 ms Maximum = 1 ms, Average = 0 ms.

## OBSERVATION: -

we can observe that after VLAN is configured we can successfully ping PC2 (192, 168, 20,2) from PCO (192, 168, 112)

PC2 and PC3 are growted together and communication among them is done via VLAN.

### **TOPOLOGY:**



#### **OUTPUT:**

