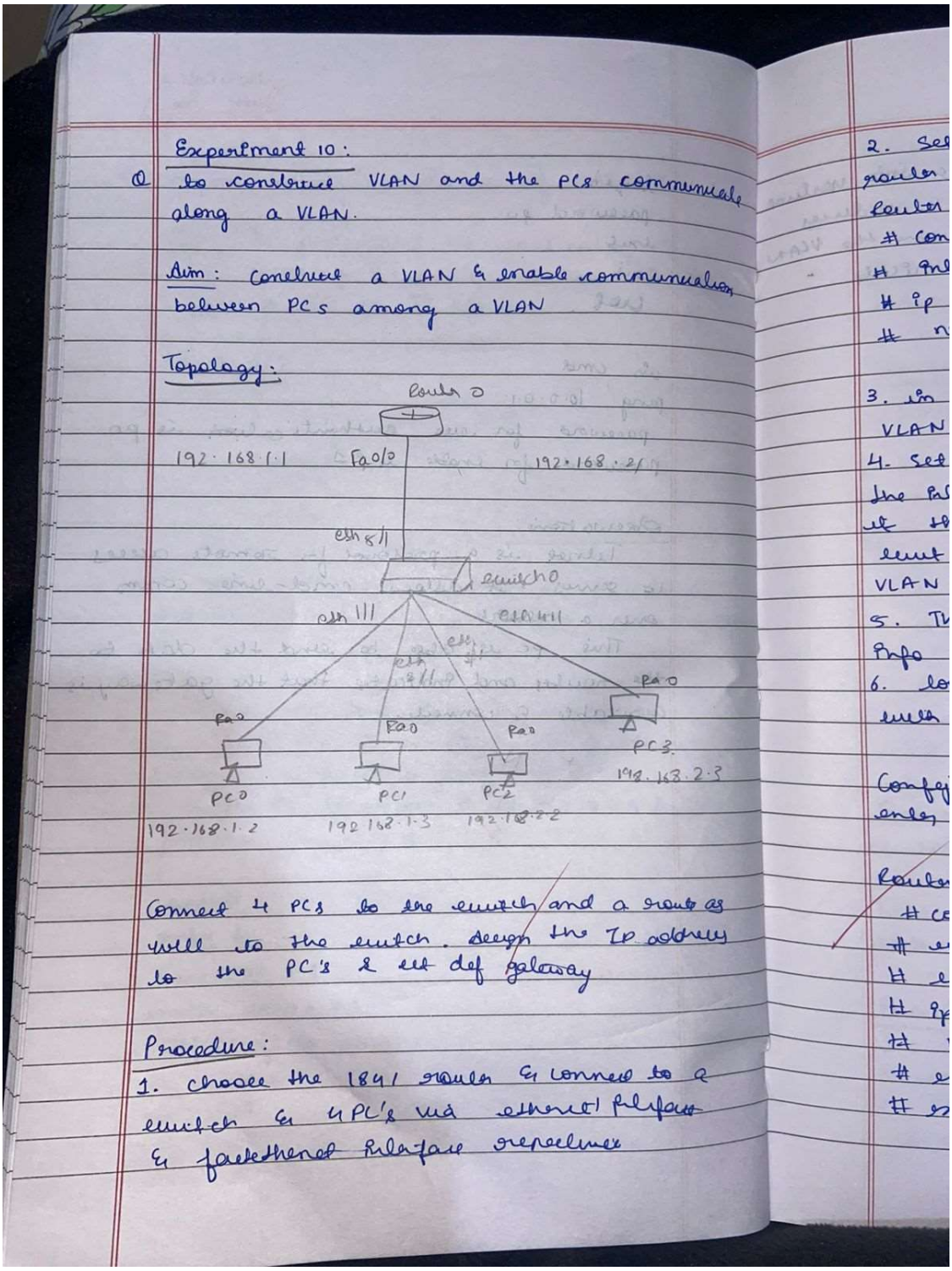
Avani.A (1BM22CS059)

EXPERIMENT-10

Aim:To understand the operation of TELNET by accessing the router in the server room from a PC in the IT office.

Topology , Procedure and Observation:



Bafna Gold
Date: Page:

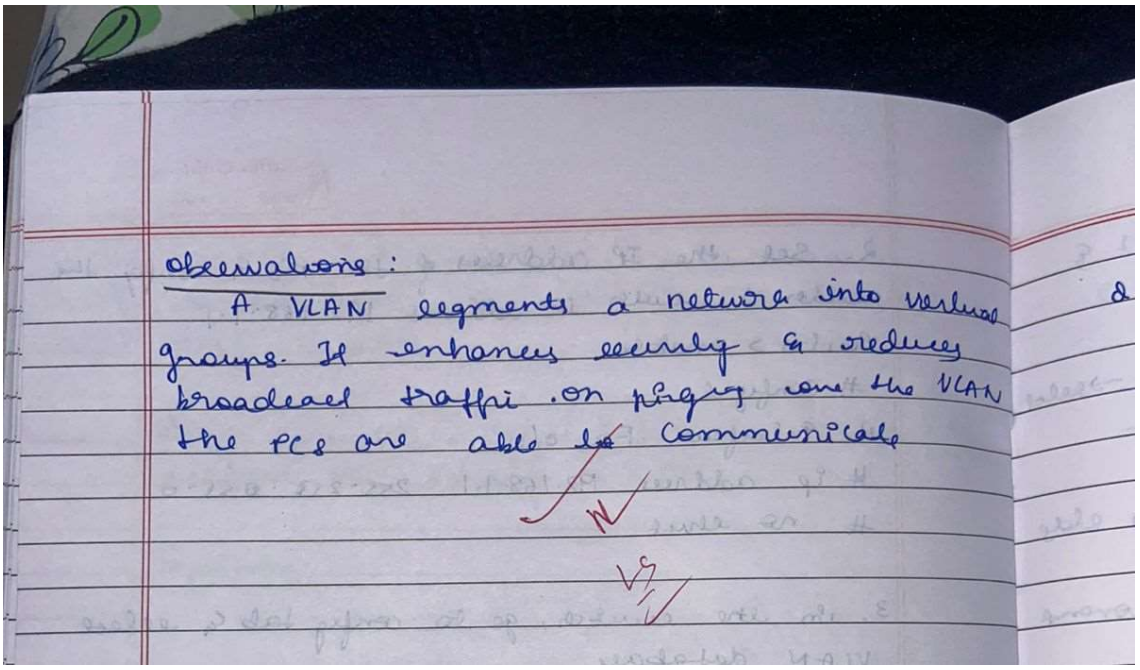
2. Set the IP addresses of the PCs & config the router 1 with IP address 192.168.1.1

Router > enable
config t
interface Fa 0/0
ip address 192.168.1.1 255.255.255.0
no shut

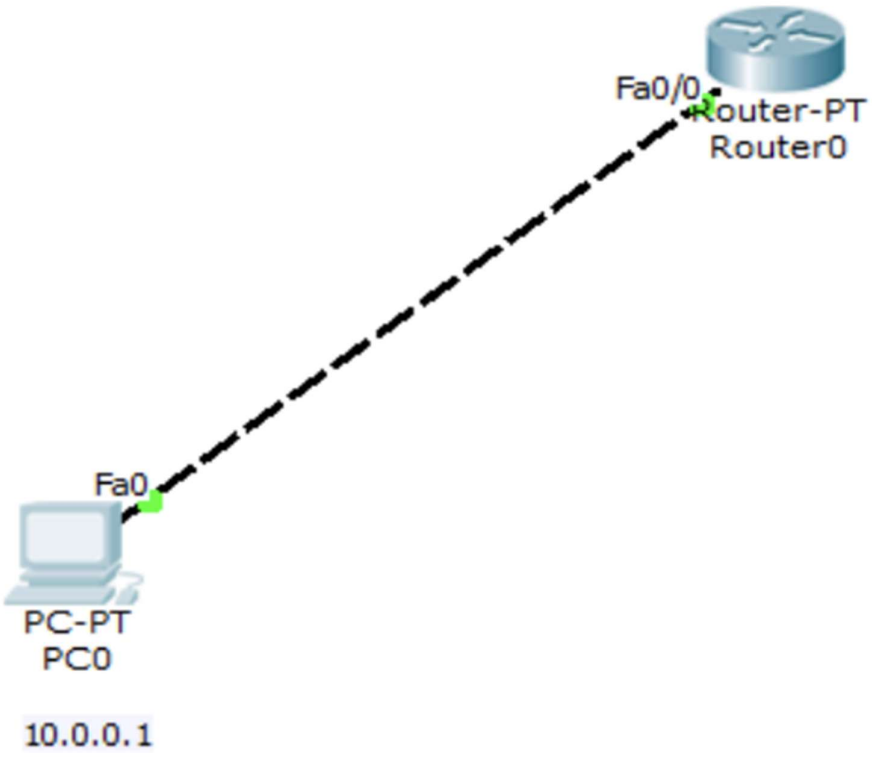
3. In the switch, go to config tab & select VLAN database
4. Set the VLAN number & VLAN name. Select the interface, i.e, fastethernet 5/1 & make it the trunk. VLAN trunking allows switches to forward frame from diff VLAN over a single link called trunk
5. This is done by adding additional header info called tag to the ethernet frame
6. Look into the interface of the switch with 2 new VLAN systems

Config tab of router select VLAN DATABASE enter number & name of VLAN created

Router (vlan) # exit
config t
interface fastethernet 0/0.1
encapsulation dot1q 2.
ip address 192.168.2.1 255.255.255.0
no shut
exit
exit



Screenshots:



Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open


User Access Verification

Password:
R1>enable
Password:
R1#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
R1#
```