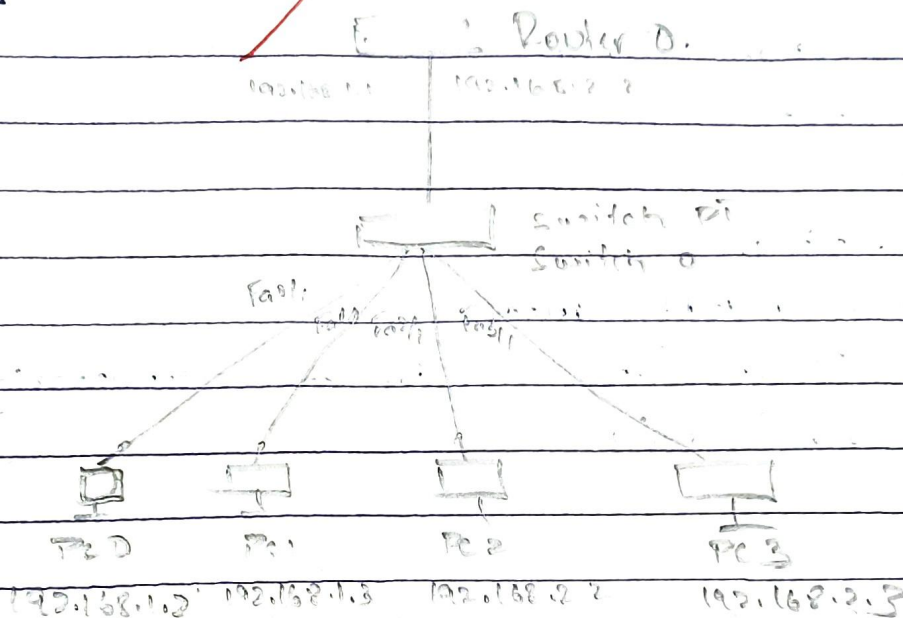


Experiment - 11

To construct a VLAN and make the PC's communicate among a VLAN

Topology 1



Procedure

→ Place 4 end devices, a switch and a router & connect the end devices to switch & switch to router using Copper-Straight wiring.

→ Assign IP to end devices as displayed in the topology. Give VLAN no. name in switch & add

→ In Router 0

> enable

config terminal

interface fa0/0

exit

exit

vlan database

vlan 2 name cscise

```
# exit
# config terminal
# interface fa 0/0.1
# encapsulation dot1q 2
# ip address 192.168.2.1 255.255.255.0
# no shut
# exit
```

→ In switch 0

→ choose VLAN database

→ Turn Port status on for the corresponding ethernet

→ Enable Trunk

Observation:-

→ Proper Trunk configuration is enabled to make VLAN work properly

→ VLAN trunking allows switches to forward frames from different VLAN over single link called trunk

→ Ping messages from different PC are observed to be working successfully hence both