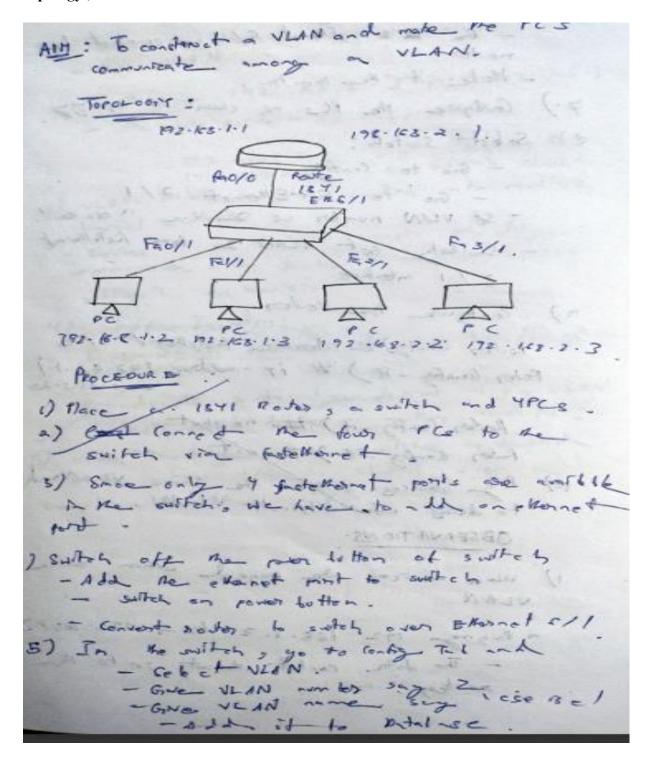
## Program 12

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

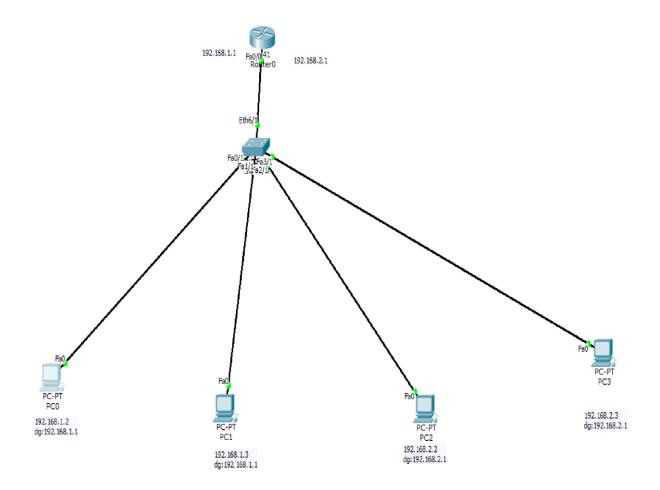
**Topology**, **Procedure and Observation:** 



6) Select Ke switch . - Go m to Ethoret c/ 1 ie correct to nester : - Hole I Me month. 7.) Configure the PCs as claim in brothy e) Select SalteL: - Go to Config - Go to Fit Ethernet 2/1 - St VLAN number as 2 me " are se! -- Smitaly Ect VLAN 2 Pots Lebellont 3/1 mtofice. a) . Contigue he easter , Rocher (conty) the interface fastetonit 076 Poter (config - # ) # 17 - address 192.6.8.1.) 455-255-254 and he was a Roter (rents) - 7) # no what hater (copy - if ) # golf. 10) Pry devices with the same VLANNING to doing of difficult VLAN. OBSERVATIONS. 1) Hen devices we proged within some - Program 192. 668.1.3 From 172-185-1-2 - The data packet doesn't so to the nother of the second

- The switch forwards the racket whout a reed of the moster. andher VLAN. - Pingrage 192. 168.2-3 from 192.168.1.2 - The data rucket is as follows: 192-168-1-2 -> Switch -> Kouter 192-16823, E Switch al 3) VLANS JIVILE & Syle Ewitch into multiple logrent e uitales . - Devices in on VLAN connect dies etly committee with sevines or another VLAN without a moster. 4) Fastic Isolation! - Each VLAN mentions its own broadenst Broadcasts is to by devices in one VLAN I do not souch devices in mothers VLAN. 5) VLAN trusting allows switches to former of frame trans lifterent VLANS over a emple so interest front

## **Screen Shots:**



## Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.2.2
Pinging 192.168.2.2 with 32 bytes of data:
Request timed out.
Reply from 192.168.2.2: bytes=32 time=0ms TTL=127
Reply from 192.168.2.2: bytes=32 time=0ms TTL=127
Reply from 192.168.2.2: bytes=32 time=4ms TTL=127
Ping statistics for 192.168.2.2:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 4ms, Average = 1ms
PC>ping 192.168.2.2
Pinging 192.168.2.2 with 32 bytes of data:
Reply from 192.168.2.2: bytes=32 time=0ms TTL=127
Reply from 192.168.2.2: bytes=32 time=0ms TTL=127
Reply from 192.168.2.2: bytes=32 time=2ms TTL=127
Reply from 192.168.2.2: bytes=32 time=0ms TTL=127
Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 2ms, Average = 0ms
PC>ping 192.168.2.3
Pinging 192.168.2.3 with 32 bytes of data:
Request timed out.
Reply from 192.168.2.3: bytes=32 time=3ms TTL=127
Reply from 192.168.2.3: bytes=32 time=2ms TTL=127
Reply from 192.168.2.3: bytes=32 time=1ms TTL=127
Ping statistics for 192.168.2.3:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
   Minimum = 1ms, Maximum = 3ms, Average = 2ms
PC>ping 192.168.2.3
Pinging 192.168.2.3 with 32 bytes of data:
Reply from 192.168.2.3: bytes=32 time=0ms TTL=127
Reply from 192.168.2.3: bytes=32 time=0ms TTL=127
Reply from 192.168.2.3: bytes=32 time=2ms TTL=127
Reply from 192.168.2.3: bytes=32 time=0ms TTL=127
Ping statistics for 192.168.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = Oms, Maximum = 2ms, Average = Oms
```