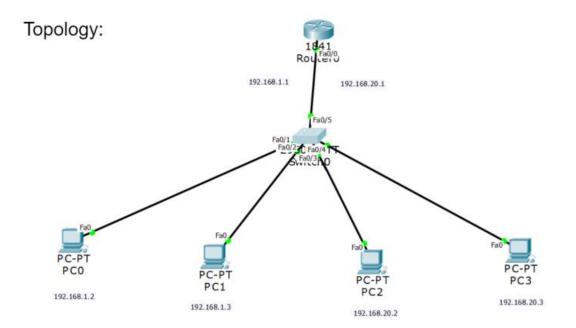
Experiment - 9

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



```
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n
Press RETURN to get started!
Router>enable
Router#vlan database
% Warning: It is recommended to configure VLAN from config mode,
 as VLAN database mode is being deprecated. Please consult user
  documentation for configuring VTP/VLAN in config mode.
Router(vlan) #vlan 20 name NEWVLAN
VLAN 20 modified:
   Name: NEWVLAN
Router (vlan) #exit
APPLY completed.
Exiting ...
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #int fa0/5
%Invalid interface type and number Router(config) #int fa0/0
Router(config-if) #ip address 192.168.1.1 255.255.255.0 Router(config-if) #no shut
Router (config-if) #
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Router(config) #int fa 0/0.1
Router (config-subif) #
%LINK-5-CHANGED: Interface FastEthernet0/0.1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.1, changed state to up
Router(config-subif) #encapsulation dot1q 20
Router(config-subif) #ip address 192.168.20.1 255.255.255.0
Router(config-subif) #no shut
Router(config-subif) #exit
```

Router (config) #



Physical Config

Desktop

Custom Interface

```
Command Prompt

PC>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

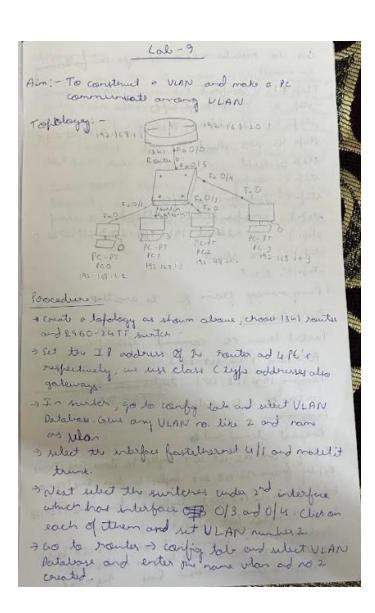
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.20.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=1ms TTL=127
Reply from 192.168.20.2: bytes=32 time=1ms TTL=127

Ping statistics for 192.168.20.2:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
```



Go to route + CET and Eye M following Commaste. Step \$1: - config T step 2: interfer for 0/0 elep 3: If address 192-168-1-1 258-265-2150 step 4: No shut such 5: Enit step 6 Config T stept: Interface for 0/01 1248: encapsulation dattly 2 step 9: 2/ oddren 192. 169:20.7 258:258:20.0 step 10: No shut step11: Esit I fing merroy from A to another VLAN PC PINO OUTPUT Packed brown pe commed the 100 PCS ling 192 188 20.3 Physica 192. 168. 2011: taylor 32 done Done carter 32 lyles of data: and 32 lyles of data; legiest line out. Refly from 192.168.203: byte= 32 time=0~ TTL-27 Refly from 192-168 203: bytes=32 dim==5~3TTL=2+ Septly from 172-168-20-3: leyter=3: dimes one TTE-127 lung statisties for 192 168 2013 Packels: senders keeping 2 3 hors = 1 (25% loss) Approximate round top lime is nothinged! min 2 Omy mone for

