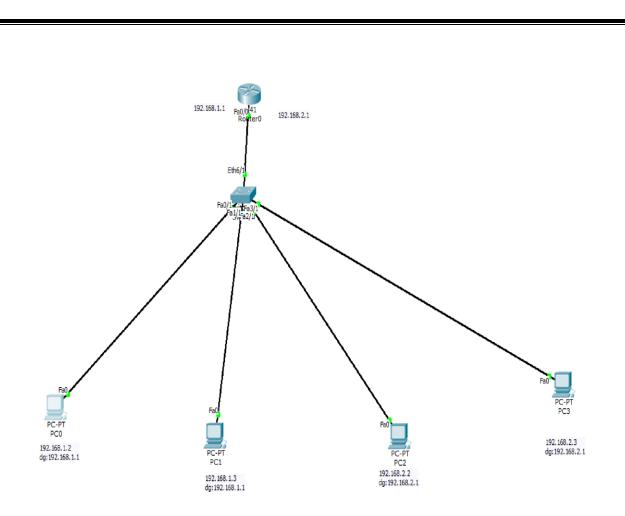
LABORATORY PROGRAM – 11

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

	PAGE NO: DATE:
1 10	1ab No 9
18/12/24	(1,00)
Nin	To Conduct a VIAN and make the PC's Communicate arms
F)har	a Vian
200	A ABABA AND AND AND AND AND AND AND AND AND AN
700 4-5	Topology
1	192.168.1.1 192.168.2.1
	20/0 Rowa 1841
	Eth 6/1
anho 11	Switch
	Faall Fazil
	(42)
- an Ci	HI HOUSE HOUSE
	92.168.12 98.168.13 192.168.2.2 192.168.2.3
	192.168.12 148.168.1.3 172.160.22 172.195.2.3
	Proceder
	Place a 1841 Rooder, a Switch and 4 PCs
	Connect the John PCs to the Switch via fast ethorner
3-	Since only a Rosettand ports are available in the scintille
4.	- Switch Aff the Paver button of Switch
-	- Add the othernol pand to the Suite
	- Switch On the Paver button
	- Great the growter to the Switch via Etherst 61
5.	In the Switch, go to Config Tab and
	- Solved Man Databax
	- Guic VLAN number Say 2
	- Guix VIAN rame son 'cseile'
	- Add it to the Database

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6	Saloca the Switch
3	- Go to Orlig
	- Go to Ethomet 6/1 ise Cornected to Router
	- Make it the trank
4	Configure the Pas as shown in the topology
8	Soloca Switch
	-60 to 61fs
	- Goo to fast ellared 211
	- Set VLAN number as 2 ie "Seise"
	- Smilerly sex VIAN 2 for tastallernex 311 interpole
9.	Configure the Roader'
	Rocater (Config.) # interface got other us go
	Routen (60kg-18)# ipaddres 192, 168,1.1 255,2552550
	Parter Conky-11)+1 voshud
	Roader (Config - 18) Hoxis
•	Now, to Continue de rador's VIAN idongo
	Parter Galgo # interface fortationet 010.1
	Parter Config - subject of encapsulation dot 19, 3
	Paulos (corfig. Subjet) # ip address 192 /68.2 1 255.255.255.0
	Parder (Golf - Subil DAT to Shut
	Rolles (Gofis - Subil) # Oxit
10	0 1 111 1120 1 1 0 00 110
10.	Ping devices within the same VLAN and to donce of different VLAN
	Observations.
1	
	When devices are pinged within some MAN.
	- Pirging 192168.1.3 from 192.168.1.2
	- The data packet bein't go to the routes
	- The Switch forwards the packet without the need of the needs

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2.	When a device girgs a device of crothon VIAN - Pigging 192168. 2.3 from 192168.12 - Pigging 192168. 2.3 from 192168.12 - Products Packet is journey is as Pollows: 192168.12 -> Switch -> Rocton
3-	VIAN'S divide a single switch into multiple boild switch - Devices to in one VIAN Count directly Communicate with devices in another VIAN without a router.
4	Traffic Isolation: - Each VLAN maintains its own broadcast dynain Broadcasts sent by devices in one VLAN do not smach devices in another VLAN
5.	VIAN townking allows switches to forward frames from different VIAN's over a single link called townk - This is done by adding an additional header information called tag to the Ethanet Frame - VIAN tagging.



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 = Oms, 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
PC>
```