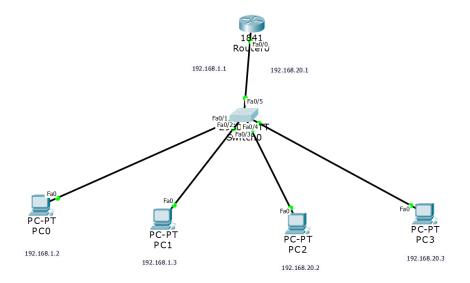
Q9)To construct a VLAN and make the PC's communicate among a VLAN

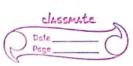




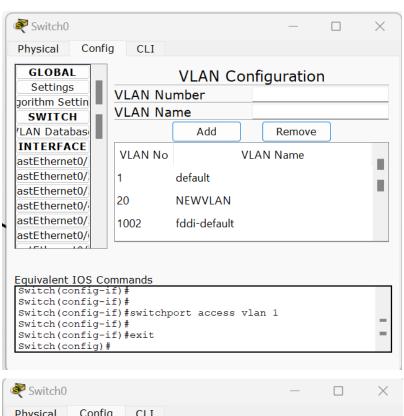
74.	sim. To construct a VIAN and make the PC's
7	communicate among a VIAN
	Topology
	1801
	(3)
	TFOOIO
	192.168.11 192.168. 20.1.
1 1	
	Exhald Carl 2 317 on the bread and darks -
	/ Switch 0
	Facily Facily
	F6012 6014
	500
	Fa0 Fa0 Fa0
	market at the second beautiful
	PC-PT PC-PT PC-PT
	PCO PCI PCZ PCZ
	192.168.1.2 192.168.20.2
	A secretary lead of A
	Procedure:
1.	Create the topplogy as shown above using 1841 router
-	and switch connect upes to them as shown
	using eopper straigh through cable
2.	We use class & addressing him.
	- Partie ang whill it may promise water is.
7	3. spt IP address & gate ways as follow
	PCO : [PANd 721 - 192. 168.1.2 (aliway 192.168.1.)
	PCI: IP > 192-168. 1.3 Gatway 192.168.1.1
	PC2: TP > 192.168.20.2 Gatuway 192.168:20.1
	PC3: 1P+> 192.168.20.3 Cateway 192.168.20.]
	PCS, IPP 191.100. 2013 Gattaray

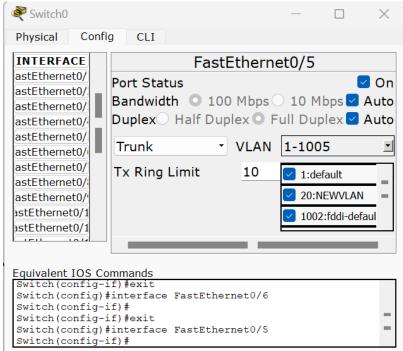


	4. Golo config table switch
	Open VLAN database
	Set VIAN number = 20
	VLAN name = NEWVLAN
	click on add.
	Evice on acco
	5. In switch go go to fastethirnet 5/0 for unders
	interfaces as it is connuled to router
	Select Trunk and choose 20: NEW WAN.
	6. Ex Edo at Eddly All 20: NEW AN
	6. For Fa0/3 and Fa0/4 select 70:NEWLAN. and
	kup Accest as it is.
	F. open config tab in souter
	Go to VIAN Database
	Add VIAN Number 20
	VIAN name: NEWWIAN
	5. In Router O go to CLI mode
	_
	Router(vlan)# exit
	Router # config t
	Pouter (config)# int fa0/0
30(Router Config # ip address 192.168:1.1 2012 2013
	1) 10
	Bouten (config-if) exit
	Router (config)# int fa 0/0.1
	Kouthy contin-subjet it and
	The same of the sa
1	Roaler (config-subif) - th no shelt Roaler (config-subif) - th no shelt
Part Control	TOTAL ENIT
	Router (con figit exist
	9.2.1 - C-6.2
	2013 - Ad - Cin C- 474 - 173



Date
Ping output:
Pinging 192.168.20.2 with 32 bytes of data
Request timed out Peoply from 192.168.20.2: bytes=32 dime=0ms TTL=123 Reply from 192.168.20.2: bytes=32 lime=gms TTL=123 Reply from 192.168.20.2: bytes=32 lime=1ms TTL=123
Ping statistics for 192.168.20.2; Packets: Sent=4, Received=2 lost=1(25-1-loss) Approximate round trip times in milli seconds: Minimum=0ms Manimum=1ms, Average=0ms Observation:
town can observe that after MAN is configured we can successfully pring PC2 (192.168.20.2) from PCD (192.168.1.2) PC2 and PC3 are grouped together and communication among them is done via VIAN 192.168.20.1 is a sub interface of a nouter





IOS Commar

```
--- 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)#
```

OUTPUT:

```
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=1ms TTL=127

Reply from 192.168.20.2: bytes=32 time=1ms TTL=127

Ping statistics for 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

PC>
```