Exno: 04	ConfigurationofIntraVLANNetwork
Date:	
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Sec:	Slot-1&S23

Objective(s):

To design and implement Intra VLA Nusings witch configuration

Introduction:

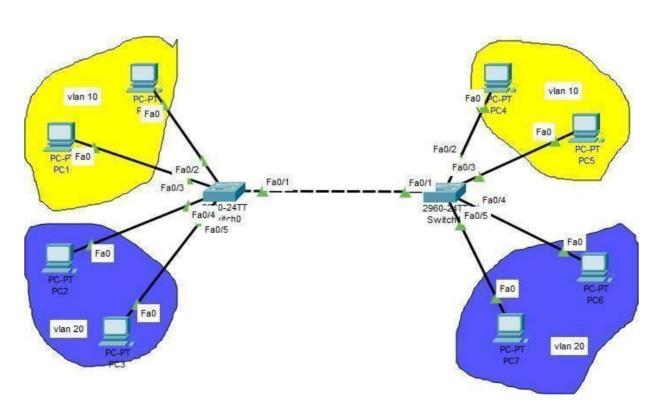
AVLANisagroupofdevicesononeormoreLANsthatareconfiguredtocommunicateasiftheywere attachedtothesamewire, when in fact they are located on a number of different LANsegments. Because VLANs are based on logical instead of physical connections, they are extremely flexible.

VLANsdefinebroadcastdomainsinaLayer2network.Abroadcastdomainisthesetofalldevicesthatwill receive broadcast frames originating from any device within the set. Broadcast domains are typically bounded by routers because routers do not forward broadcast frames. Layer 2 switches create broadcast domains based on the configuration of the switch. Switches are multiport bridges that allowyout ocreate multiple broadcast domains. Each broadcast domain is like a distinct virtual bridge within a switch. Design the above mentioned topologies and verify the connectivity.

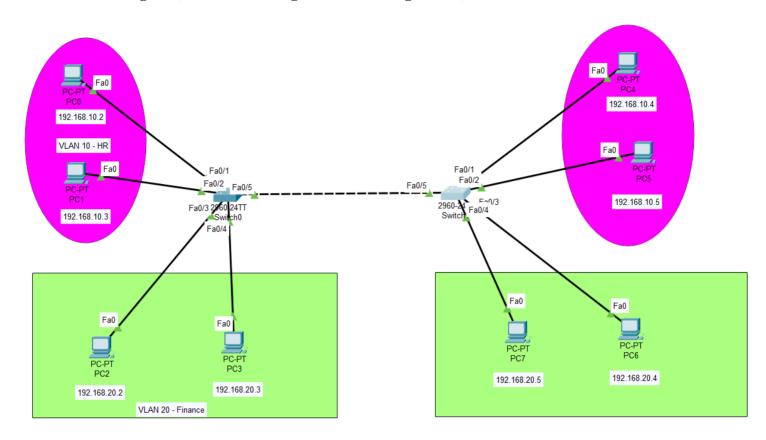
1. DeviceRequirements:

- 1. Switch
- 2. PC
- 3. Wires

${\bf 2.} \quad Network \textbf{D}iagram for your experiment (draw the diagram either hand drawing/mspaint or any other drawing tools)$



${\bf 3.}\ \ Network Diagram (Packet tracer diagram before configuration):$



4. Configuration details:

DeviceName	InterfaceName	IP Address	Subnetmask
PC0	Fa0	198.168.10.2	255.255.255.0
PC1	Fa0	198.168.10.3	255.255.255.0
PC2	Fa0	198.168.20.2	255.255.255.0
PC3	Fa0	198.168.20.3	255.255.255.0
PC4	Fa0	198.168.10.4	255.255.255.0
PC5	Fa0	198.168.10.5	255.255.255.0
PC6	Fa0	198.168.20.4	255.255.255.0
PC7	Fa0	198.168.20.5	255.255.255.0
Switch0	Fa0/1-5		
Switch1	Fa0/1-5		

5. Describestepbystepconfigurationstepsproperly(youmaycopythecommandsusedinthe configuration tab and paste it.)

- 1. CreateVLANs
- 2. Configureinterfaces
- 3. Configuretrunking

$1. \ Create VLANs, VLANs must first be created and assigned a name.$

Switch> enable

Switch# configure terminal

Switch(config)# vlan 10

Switch(config-vlan)#nameHR

Switch(config-vlan)# exit

$2. \ Assign VLAN stospecifics witch ports for the respective departments or devices.$

Switch(config)# interface FastEthernet0/1

Switch(config-if)# switchport mode access

Switch(config-if)# switchport access vlan 10

Switch(config-if)# exit

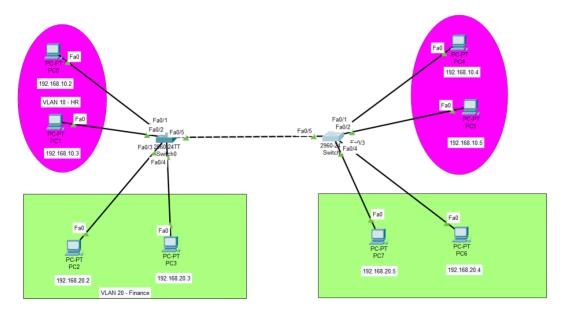
${\bf 3.} \, Set up a trunk port to allow traffic formultiple VLAN stop as sbetween switches.$

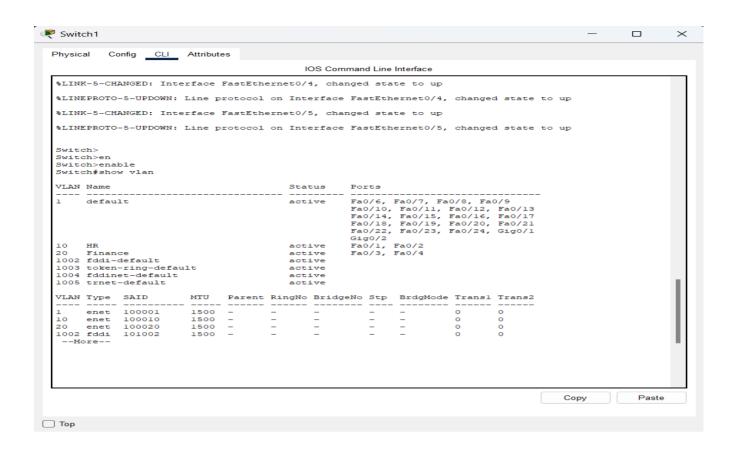
Switch(config)# interface FastEthernet0/5

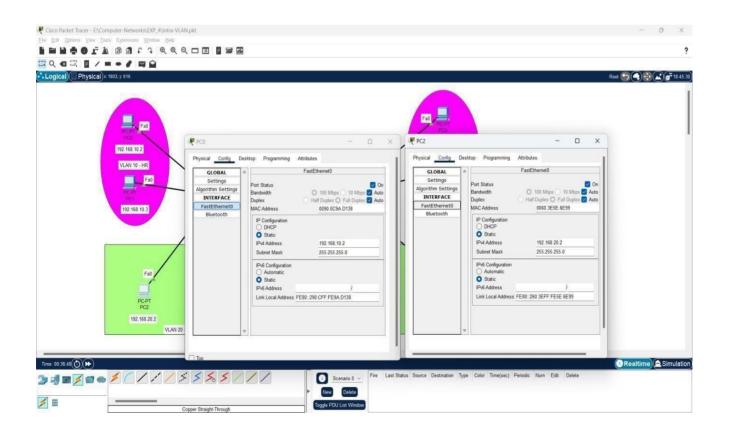
Switch(config-if)#switchportmodetrunk

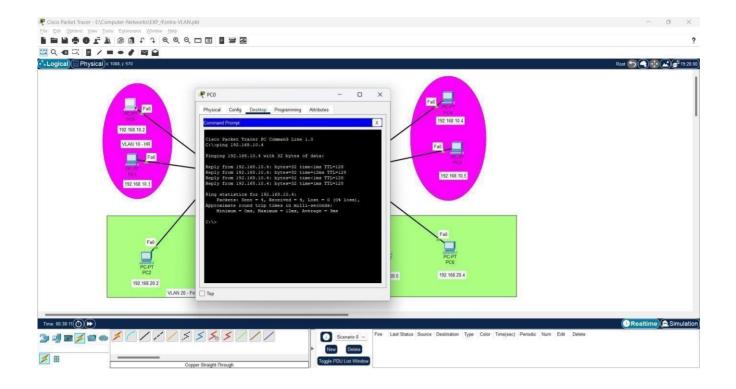
Switch(config-if)# exit

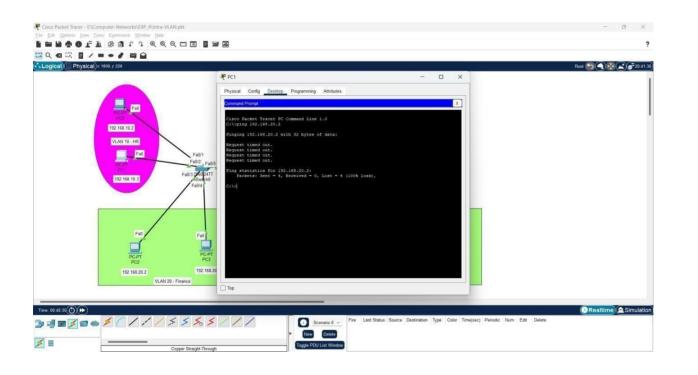
6. OutputDiagram(Minimum3screenshot):











$Google Drive link of the\ packet tracer file (give view permission):$

 $Link: https://drive.google.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/1sQ5YironLIrvdRdLo1z_SHMdyp4GtBeX?usp=drive_link.com/drive/folders/lin$

CONCLUSION (provide conclusion about this experiment):

Successfully Created a Intra VLA Nusing switch configuration and verified the connections from all the ends using Packet Tracer.

Rubrics	Good	Normal	Poor	Marks
Creationof Topology(4)	Created the topology, Identify the properdevices and making the connections (4)	Created the topology, Identify the proper devices, makingthe connections But missing some features (3)	Created wrong topology, Failed to Identify the proper devices and making connections (1)	
Verify the connectivity (4)	Verified the connectivity in all the levels (4)	Verified the connectivity at some levels (only some nodes) (2)	Verified the connectivity is not done. (1)	
Timely Completion (2)	Completed the lab before the allotted time (2)	1	Did not submitted before grading (0)	
			Total	