

Assignment 1

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Class: Se-5B

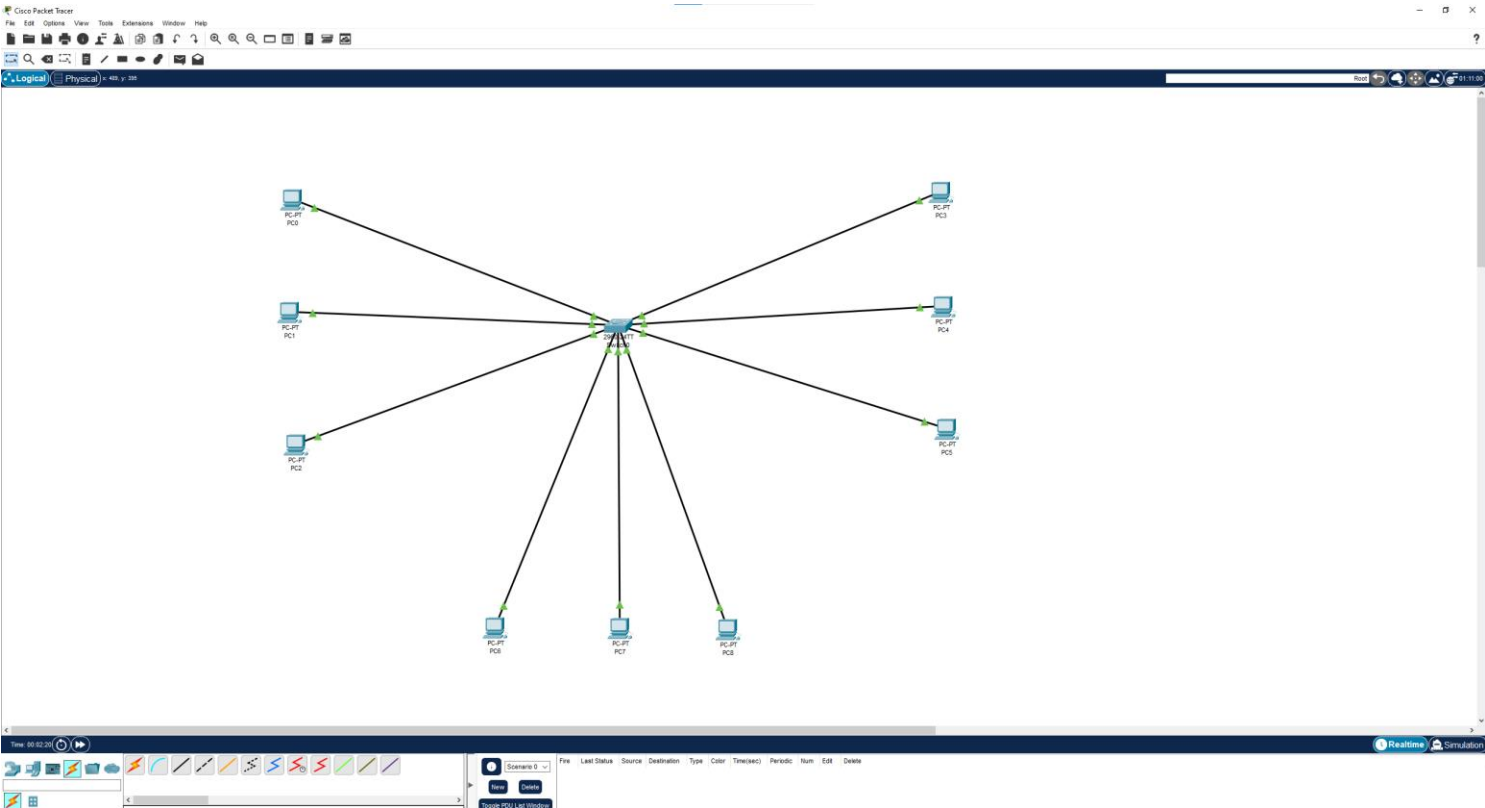
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Course: Computer Networks
By Sir Wilayat

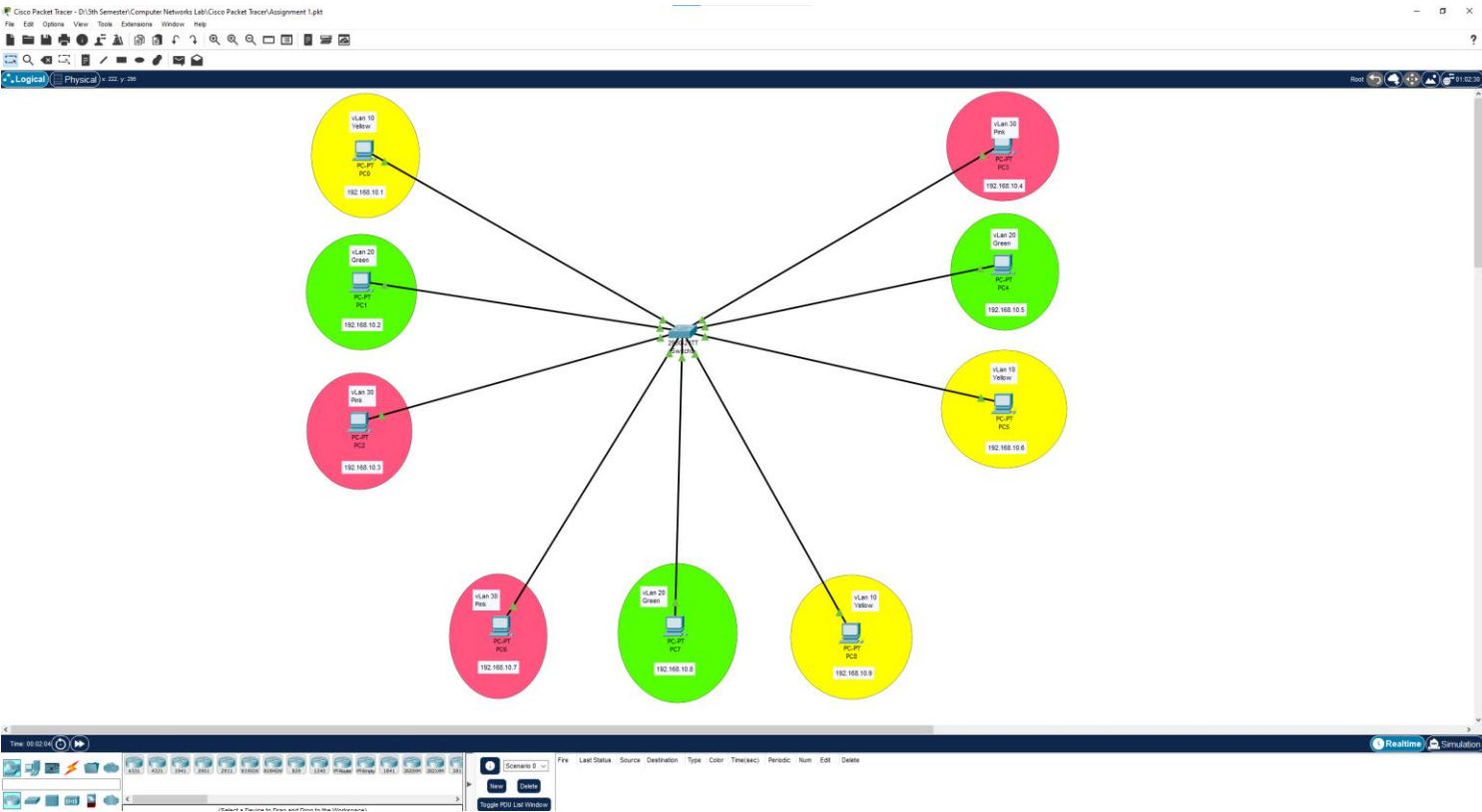
Q1: Create three different VLANs using a single switch and 3 nodes in each broadcast domain. i-e vlan10, vlan20 and vlan30 Configure the above scenario using the command line interface. (No GUI)

We need one Switch and 9 PC's to perform this Activity.

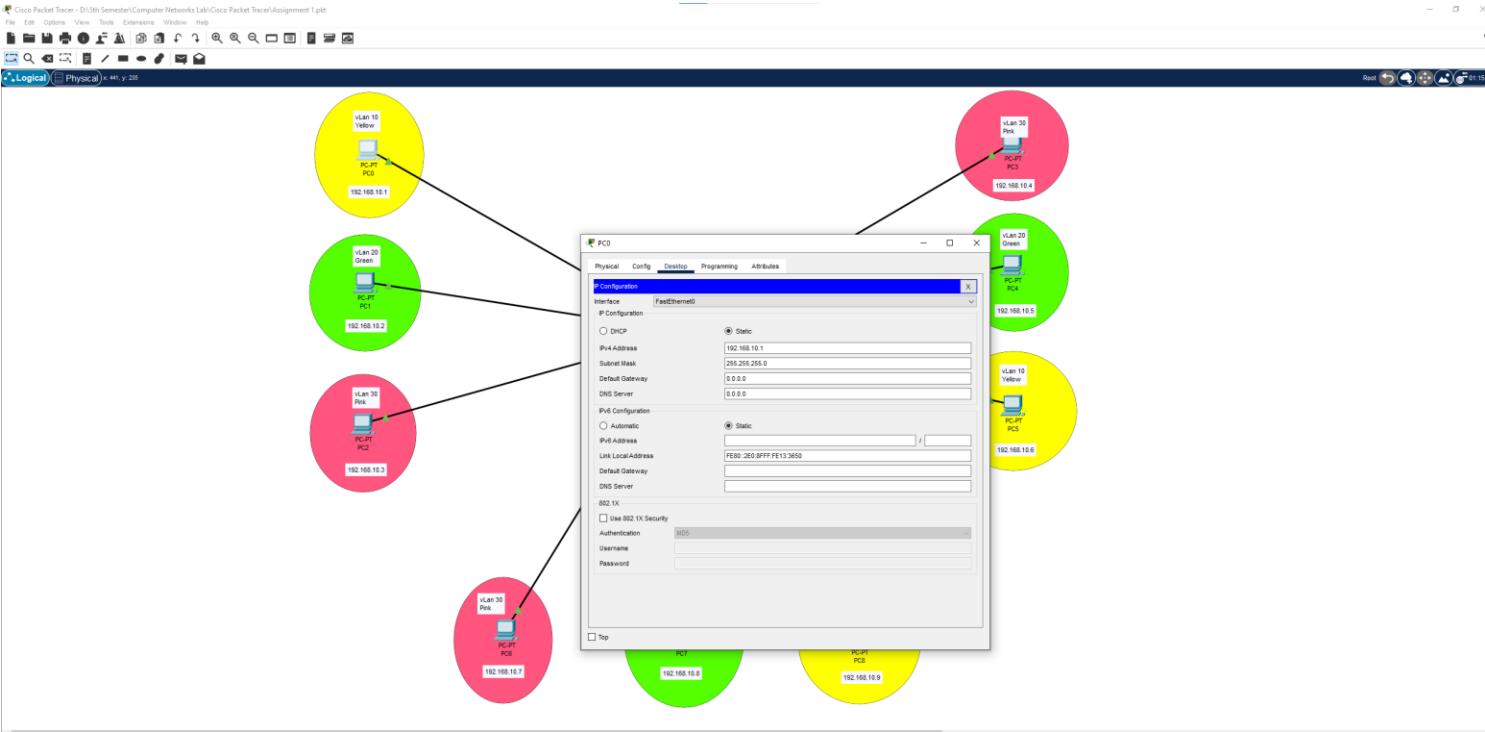
Step 1: Setting the Switch and PC's



Step 2: Coloring and labeling them with Ip's and vLans



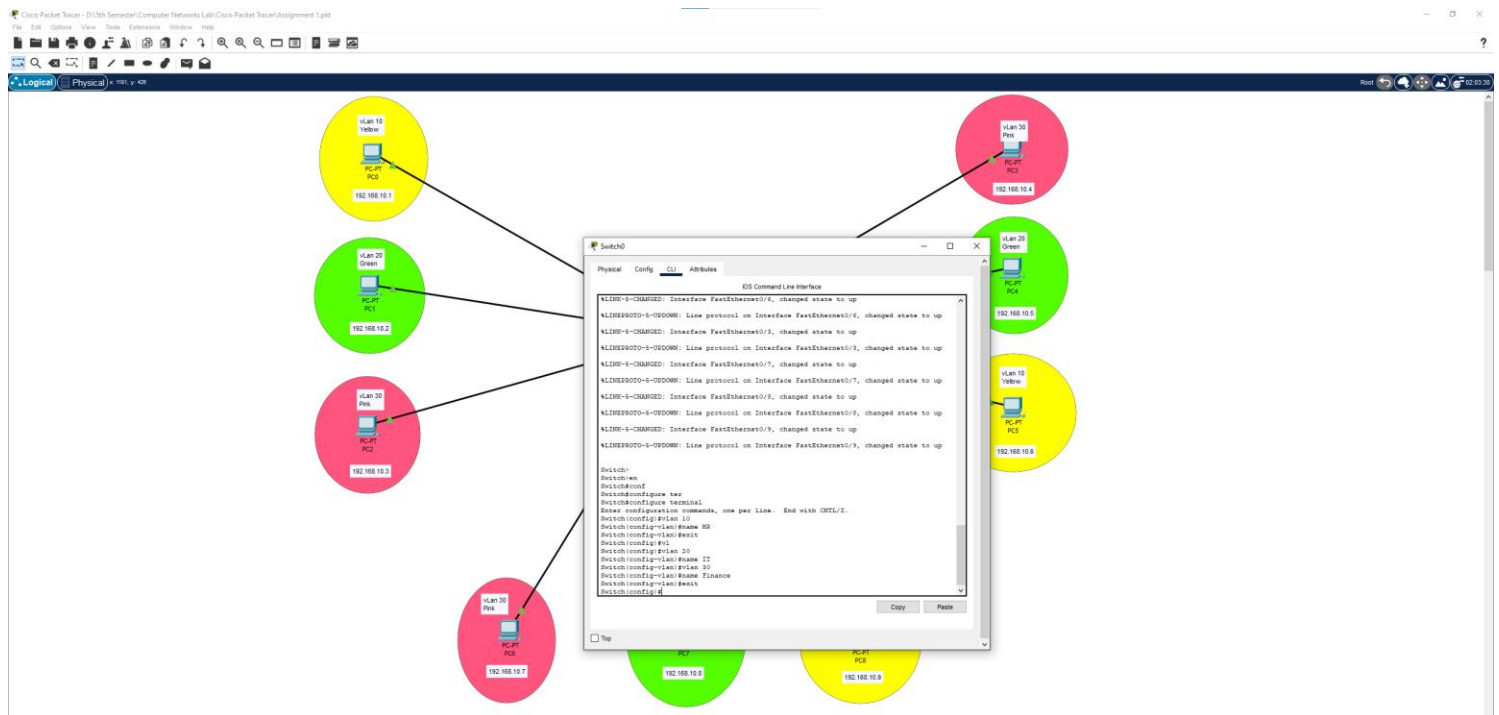
Step 3: Assign the IP to each NINE PC's Through ex I will assign PC 0 to 192.168.10.1 PC 1 to 192.168.10.2 and so on.



Step 4: Now I will Enable the global configuration mode then Create vLans assign the names for example:

vLan 10 ---- HR
vLan 20 ---- IT
vLan 30 ---- Finance

First click to the switch then go to the CLI then write the following commands as shown in the PIC

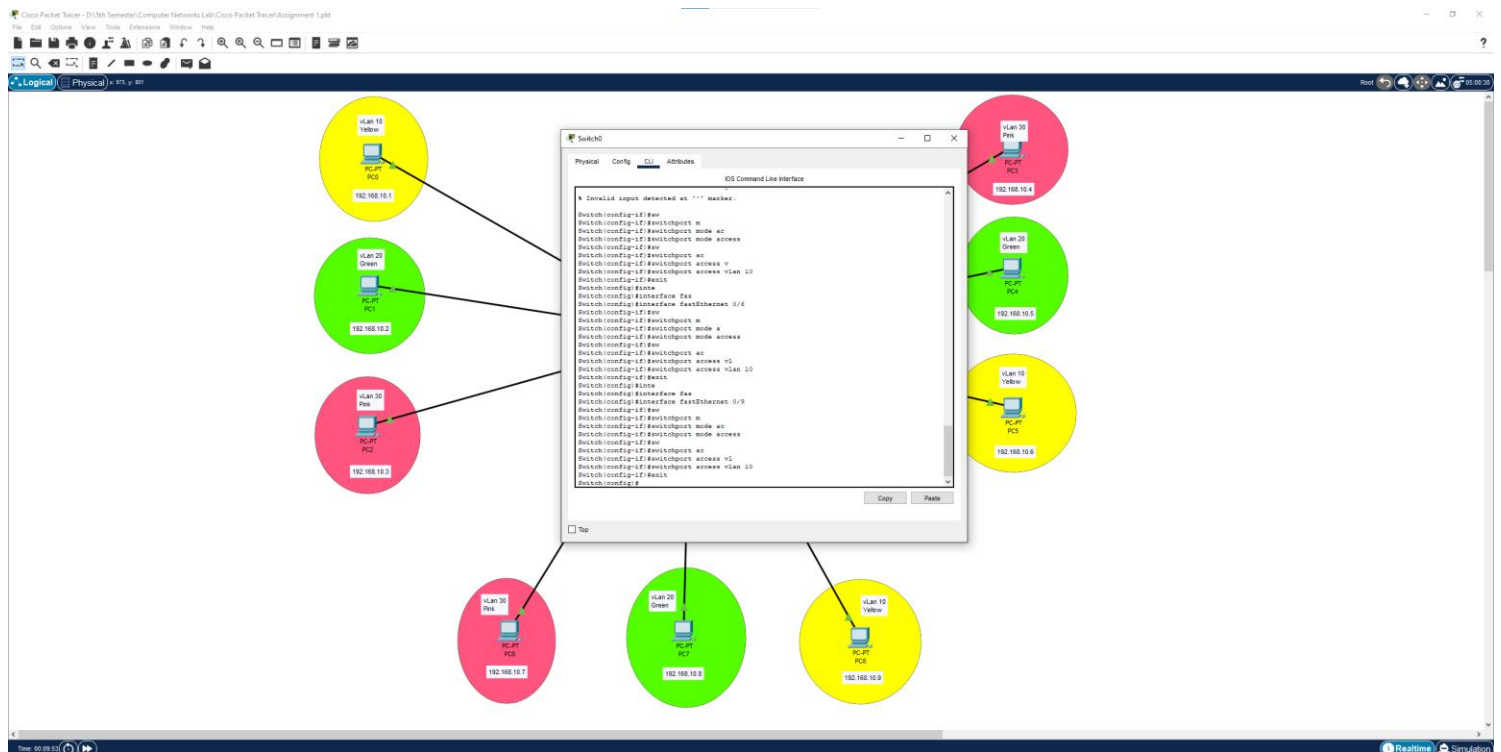


Through vLan commands Show vLan brief we can see the configurations

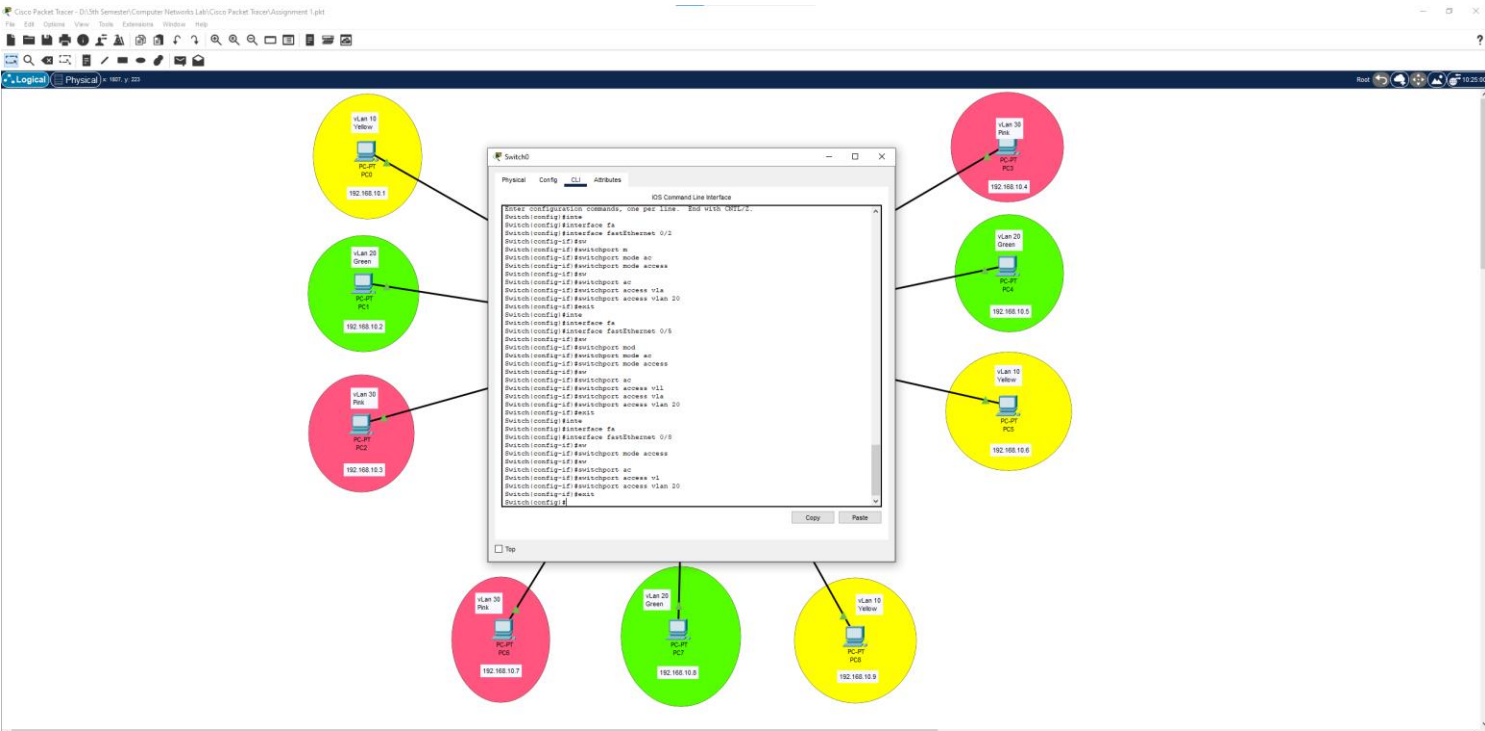
| VLAN Name | Status | Ports |
|-------------------------|--------|---|
| 1 default | active | Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/1, Gig0/2 |
| 10 HR | active | |
| 20 IT | active | |
| 30 Finance | active | |
| 1002 fddi-default | active | |
| 1003 token-ring-default | active | |
| 1004 fddinet-default | active | |
| 1005 trnet-default | active | |

Switch#

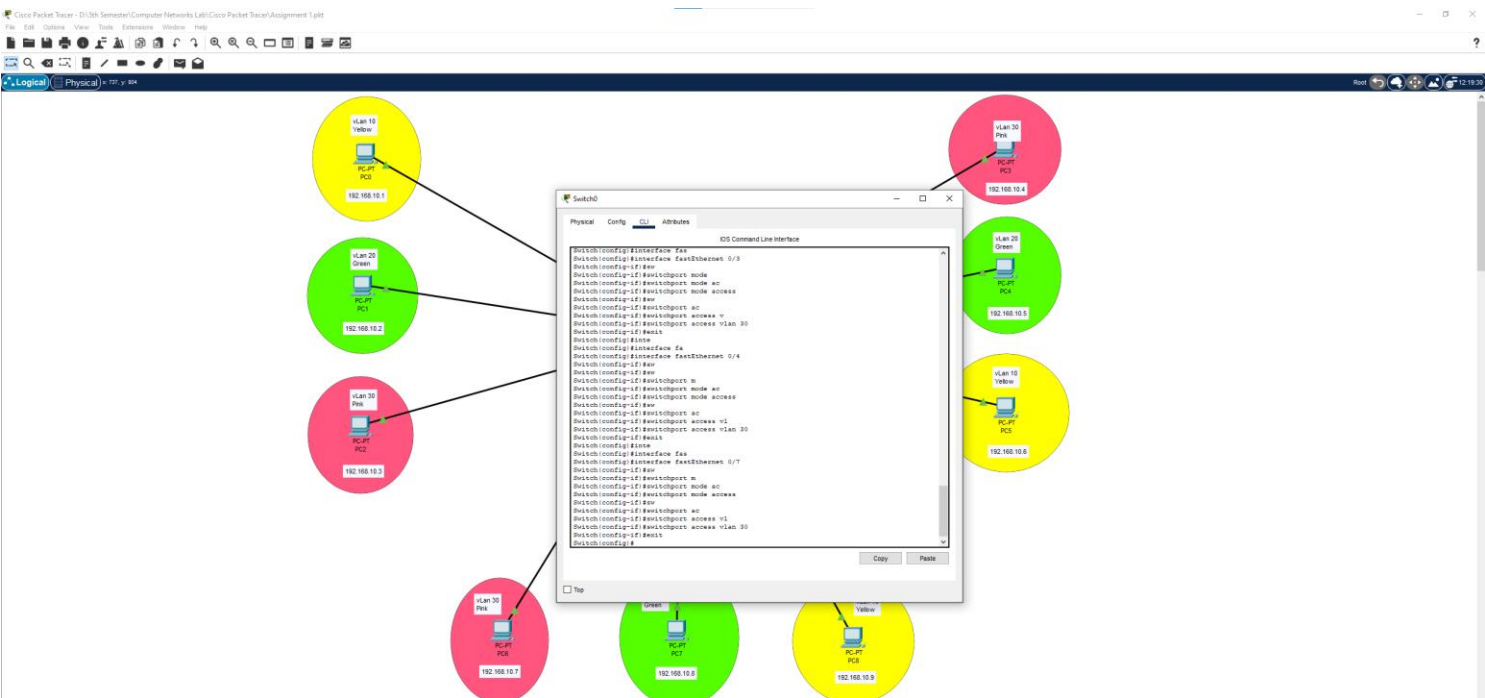
FOR vLan 10 (HR) fast Ethernet 0/1 , 0/6 , 0/9



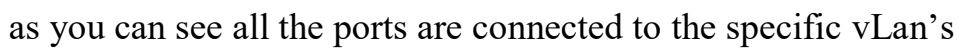
FOR vLan 10 (HR) fast Ethernet 0/2 , 0/5 , 0/8



FOR vLan 10 (HR) fast Ethernet 0/3 , 0/4 , 0/7



SHOW VLAN BRIEF



Step 7 : Lets check by sending some packets

