NAME : SAUMYA GUPTA

COURSE : MCA 2 B

UNIVERSITY ROLL NO: 2001134

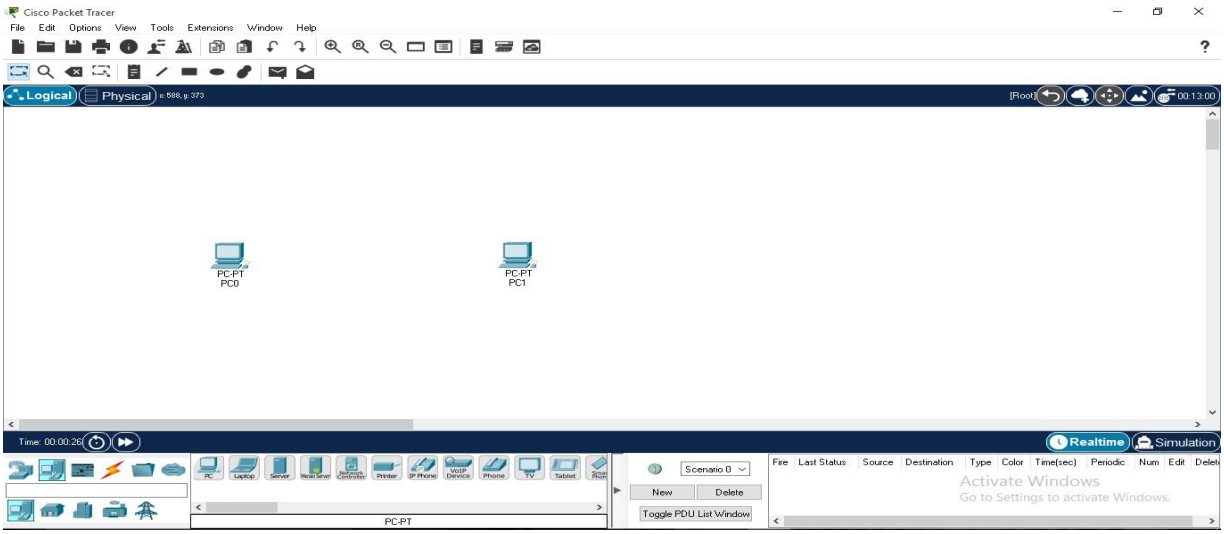
SUBJECT: COMPUTER NETWORK

Problem statement 2: Perform Connecting two PCs /computer using peer to peer in Packet Tracer.

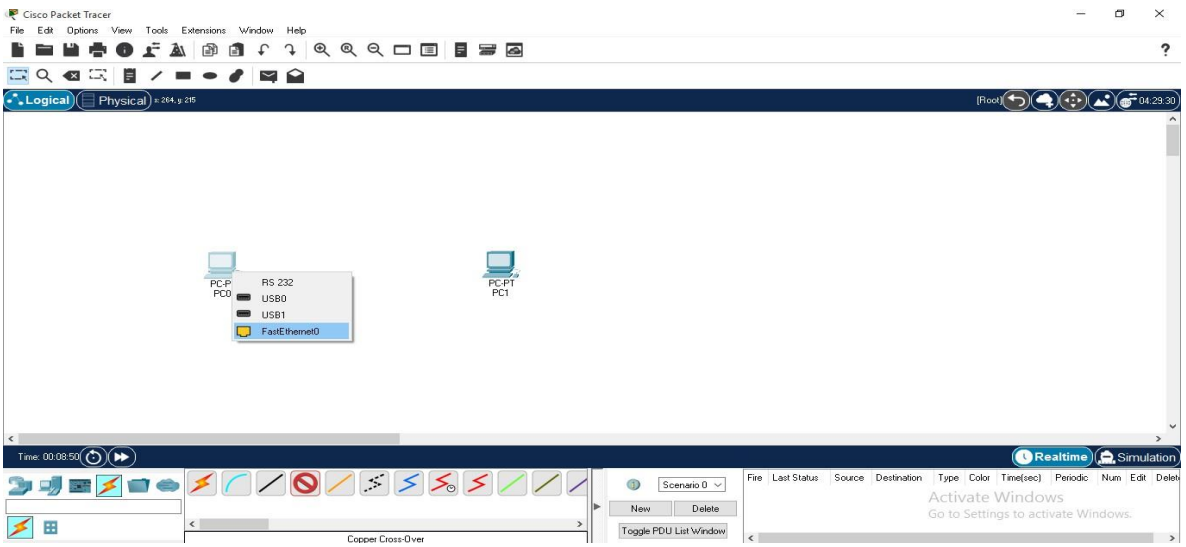
Objective: To understand how to connect two PCs /computer using peer to peer.

Description:

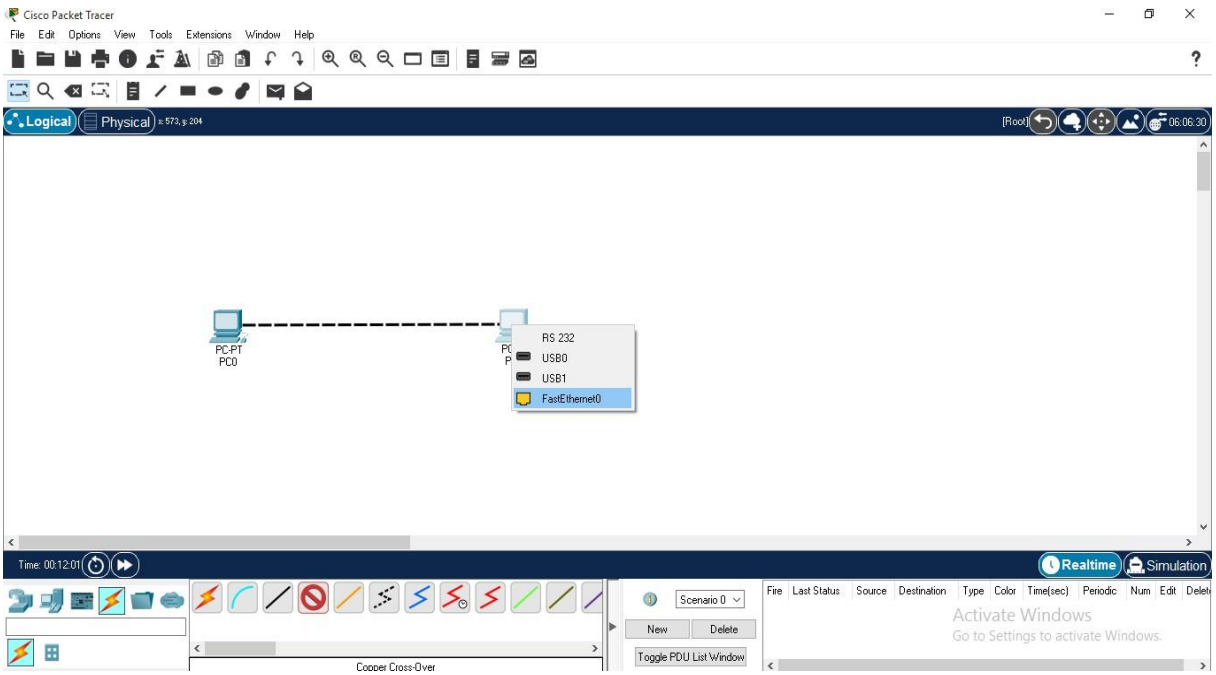
STEP 01 - Open PACKET TRACER and go to the bottom left side of packet tracer window and then click on **END DEVICES** and select icon of PC then drag and drop PC icon from it in the workspace.



STEP 02 - Then again go to the bottom left side of packet tracer window and then click on **CONNECTIONS** since we are using the same device therefore select **copper cross over cable.** Then right click on PC0 and click on FastEthernet0.

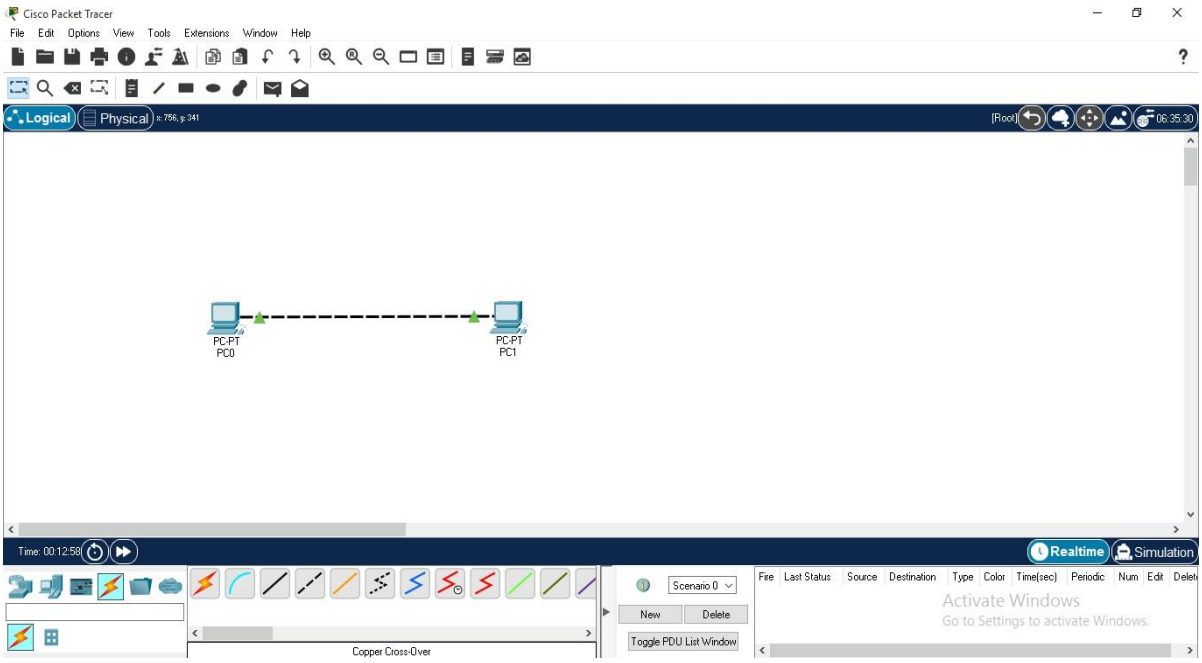


STEPS 03 - Then extend the copper cross over cable to PC1 then click right on PC1 and click FastEthernet0.



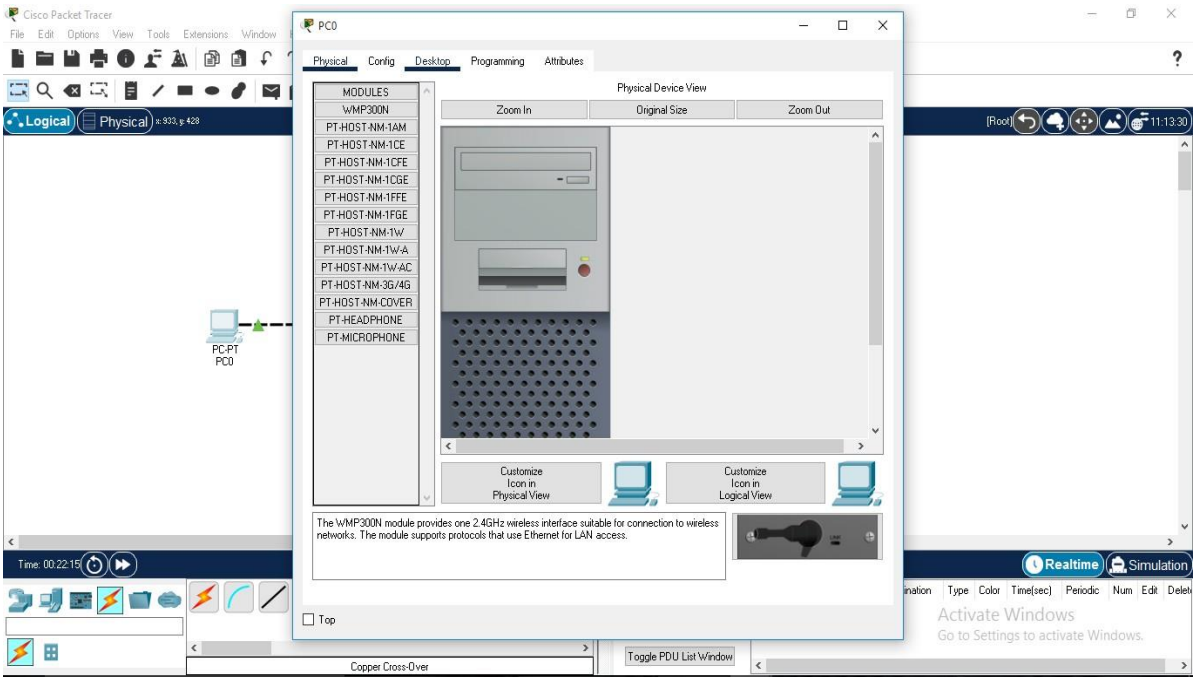
STEP 04 - Check design is correct or not, if there is a **green indicator** between the copper cross over cable connection then that means that the connection is established between the devices with no errors, and if there is a **red indicator** that means there is an error between the connections in devices.

Here, the connection is established successfully between PC0 and PC1.

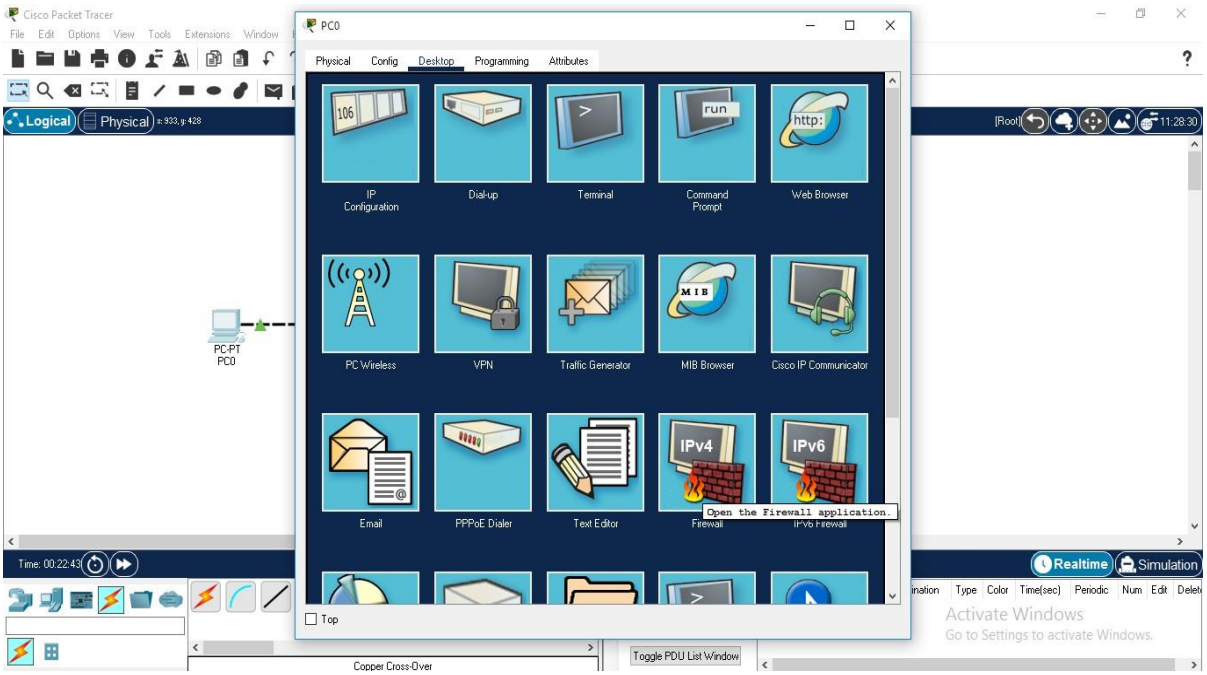


STEP 05 - Now we will configure the IP address for both PC0 and PC1.

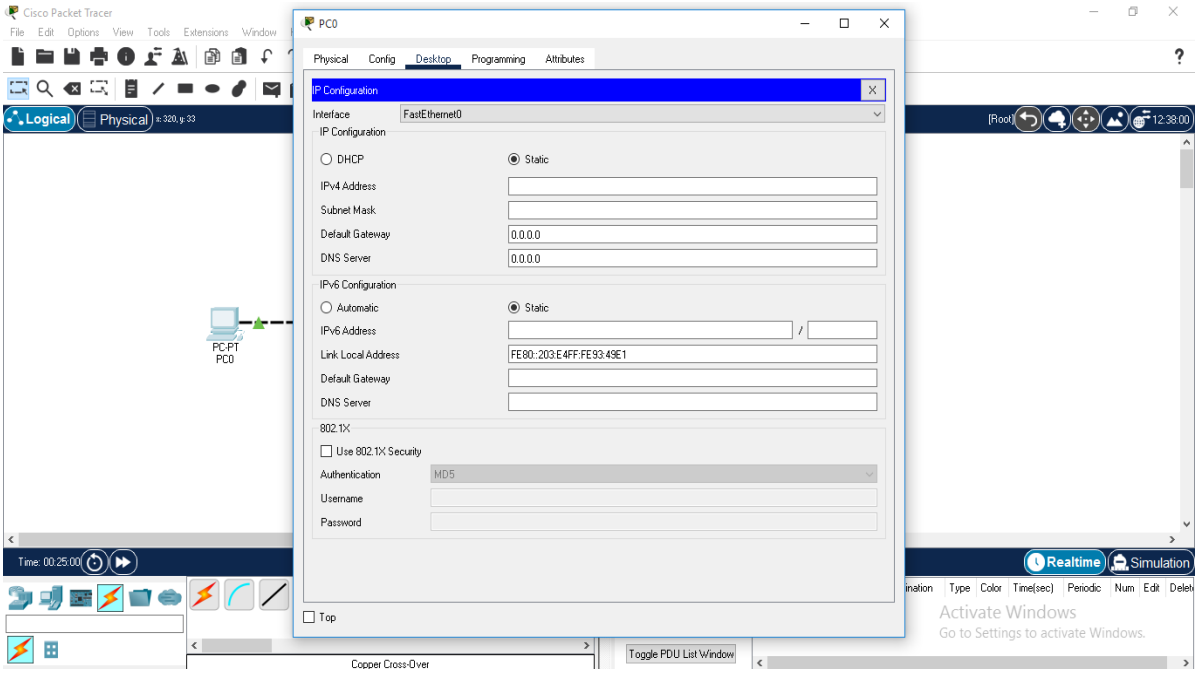
Click on PC0, a window will open and in that window click on the **desktop tab**.



After clicking on desktop tab-

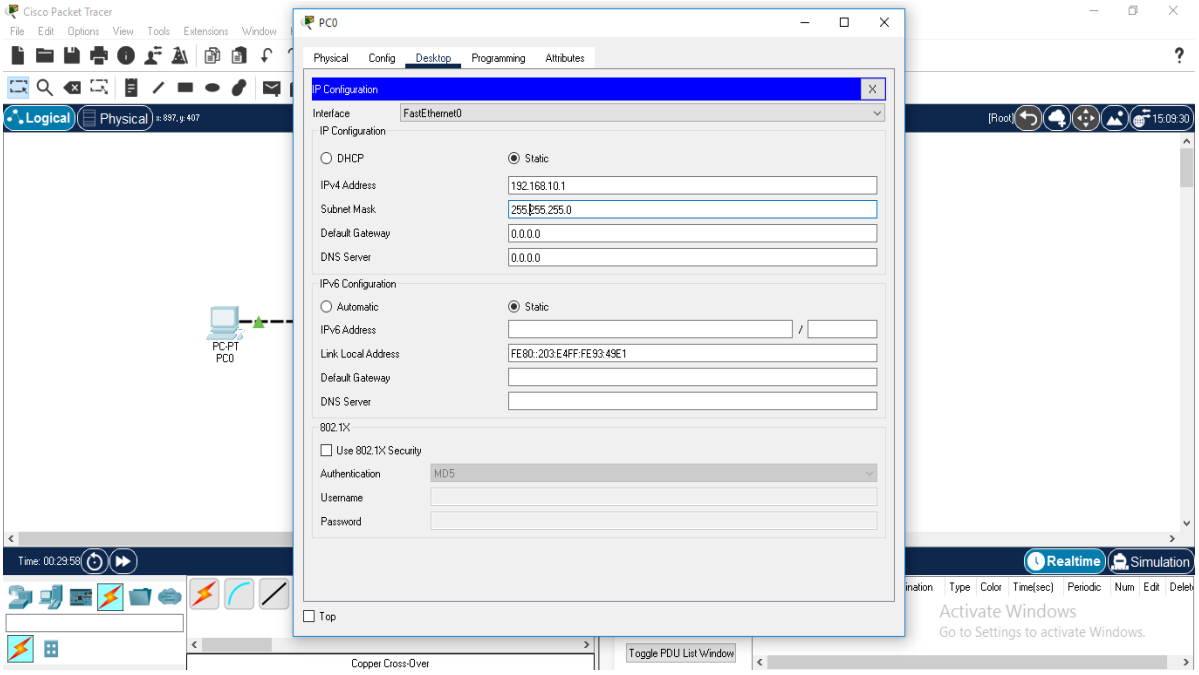


STEP 06 - Click on IP Configuration.



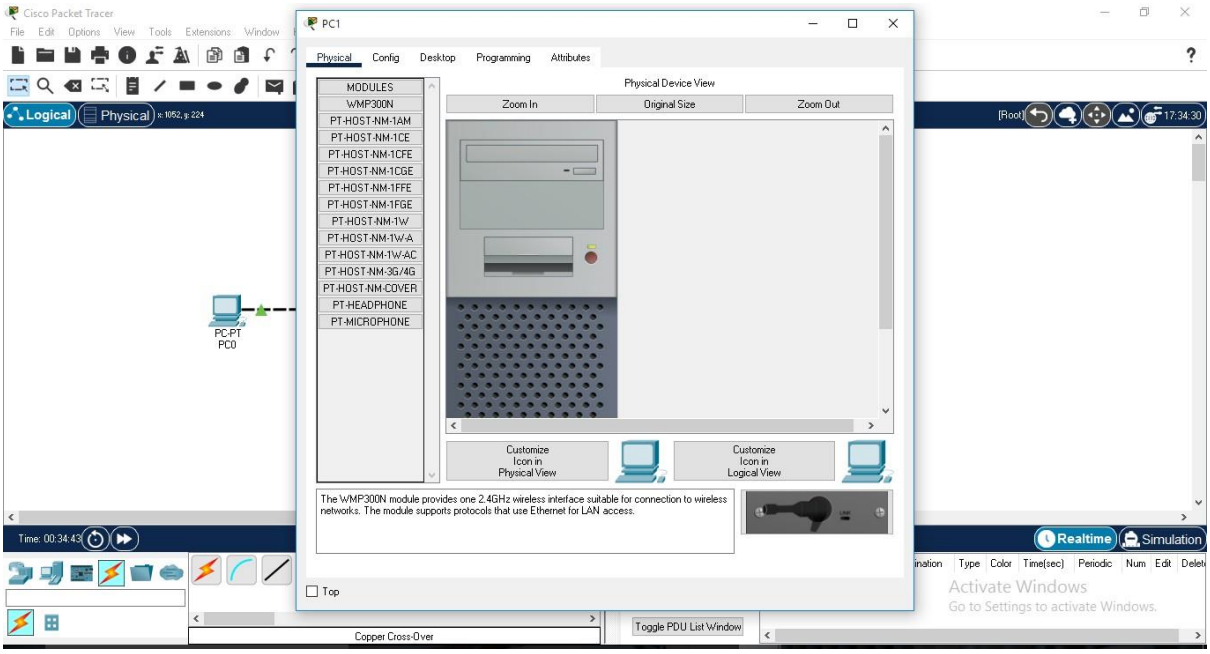
STEP 07 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.1**) for PC0. After that click on Subnet Mask field it will fill automatically with default subnet mask.

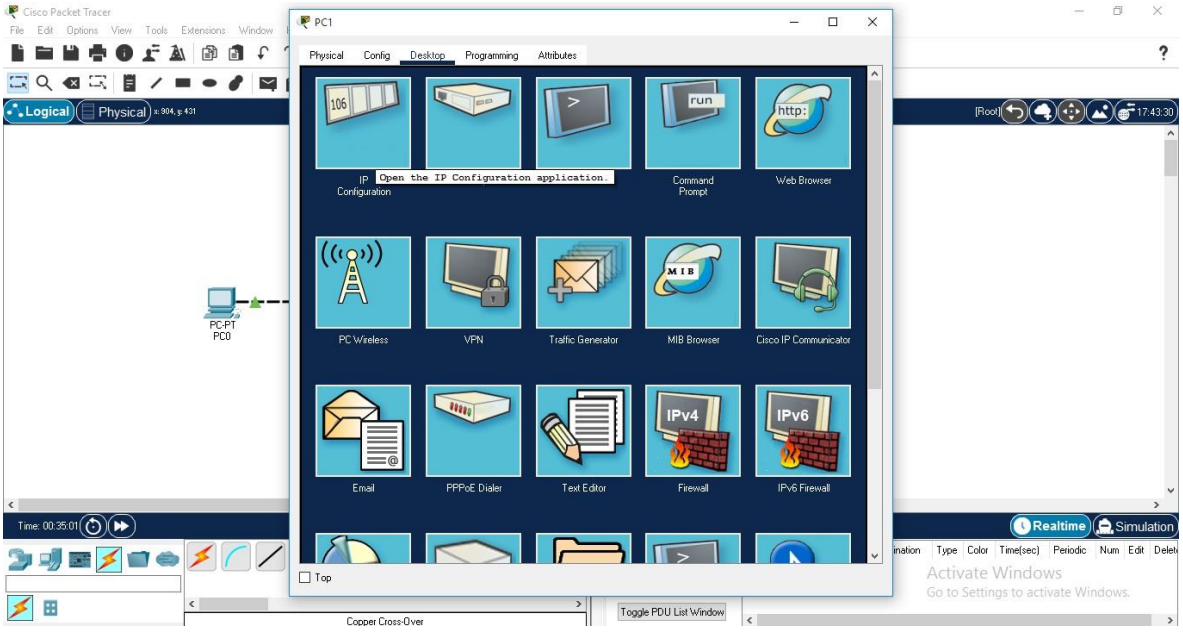
After that the IP Configuration is done for PC0.



STEP 08 - Now repeat all previous steps of IP configuration which is done for PC0 for the IP Configuration of PC1.

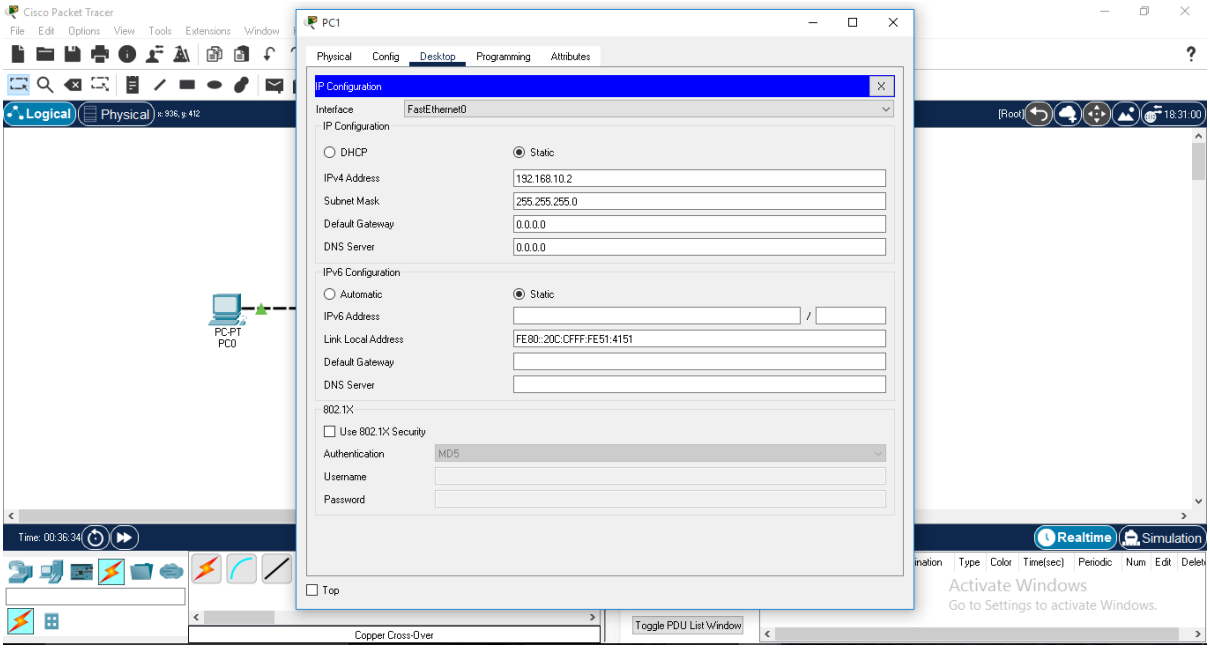
Click on PC1, a window will open and in that window click on the **desktop tab**. And repeat all steps.



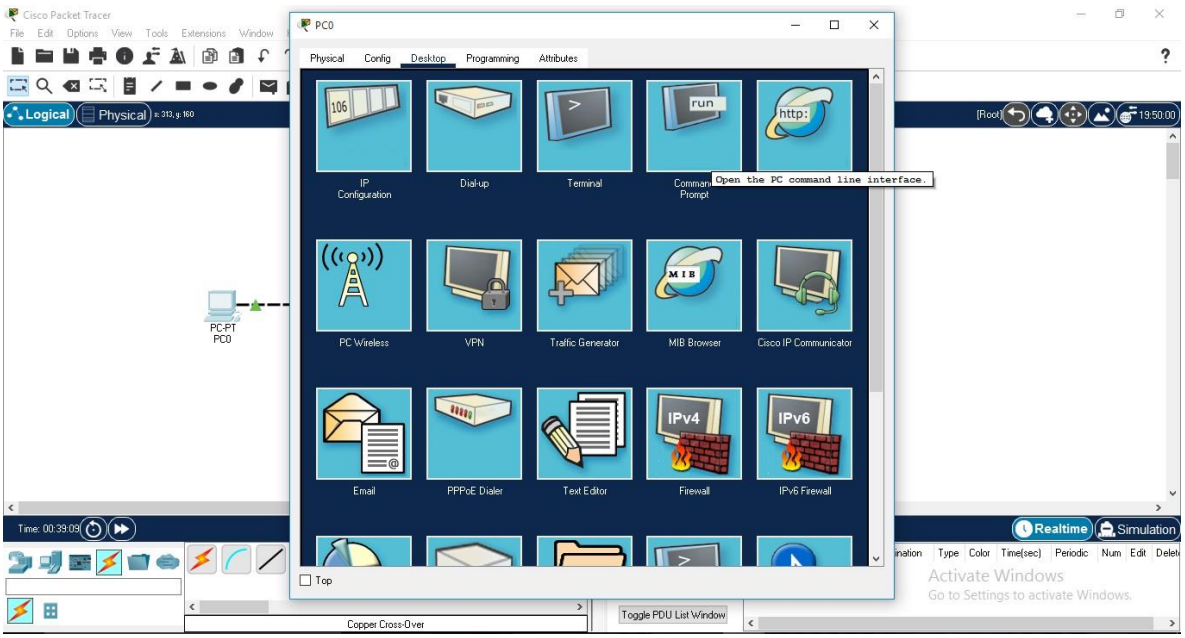


STEP 09 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After that click on Subnet Mask field it will fill automatically with default subnet mask.

After that the IP Configuration is done for PC1.



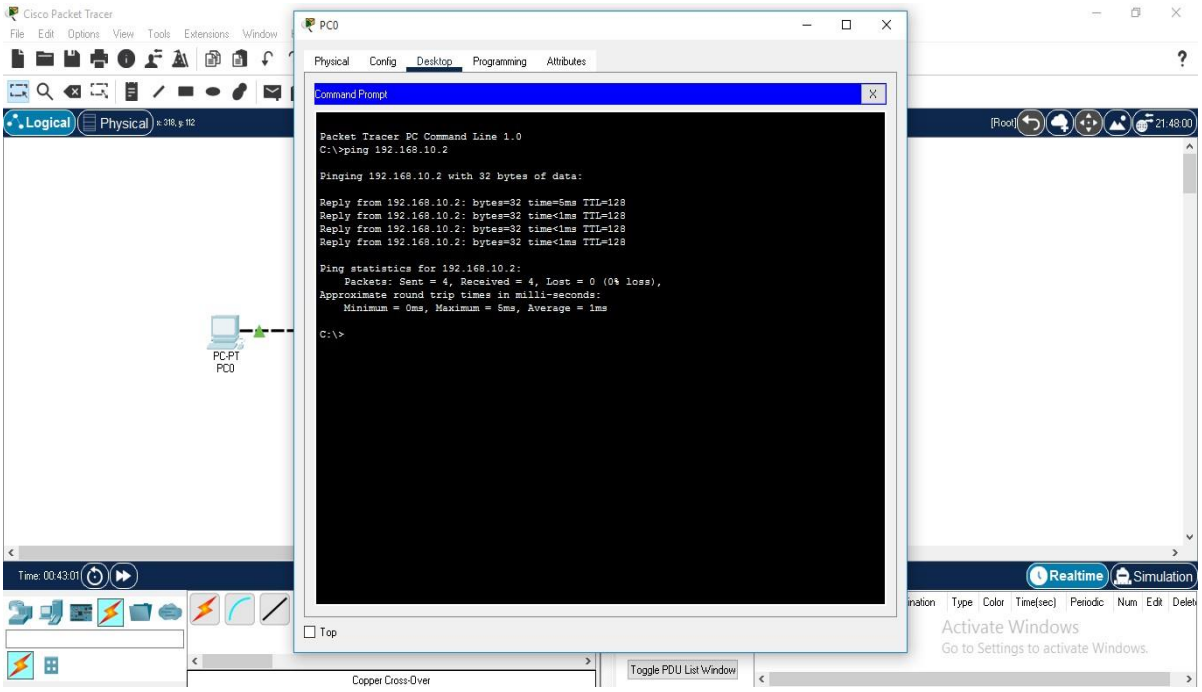
STEP 10 - Check our design is working or not, click on PC0 then click on command prompt.



have to give the IP address of PC1) on terminal to check or to test the connectivity between the devices.

STEP 09 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After

(We can perform same with PC1 as well to check connectivity using ping command.)



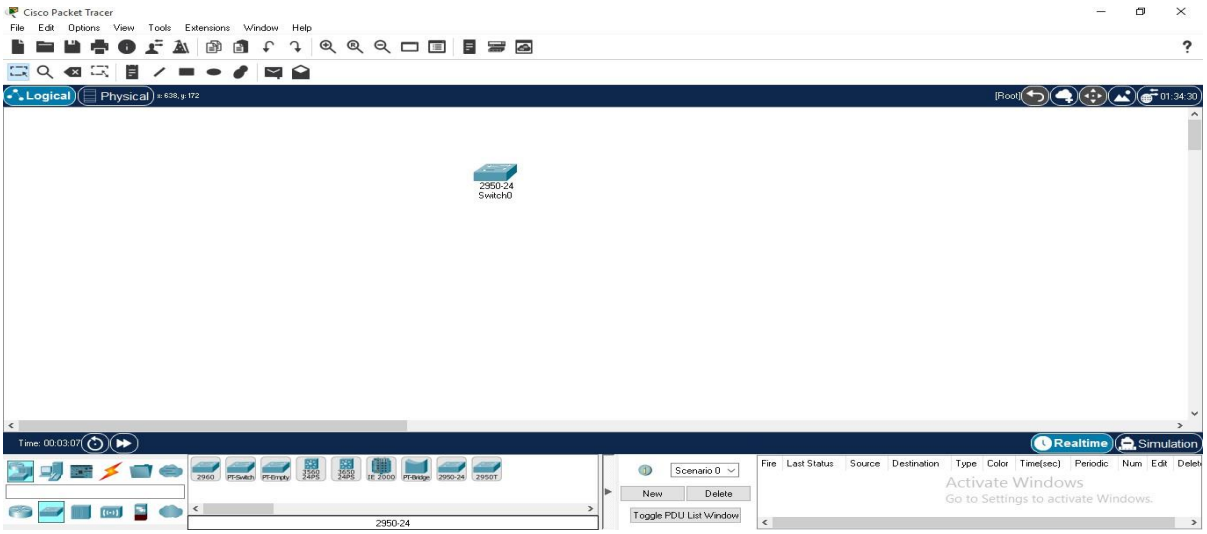
SO, BOTH SYSTEMS ARE CONNECTED TO EACH OTHER.

Problem statement 1: Create a wired LAN in packet tracer.

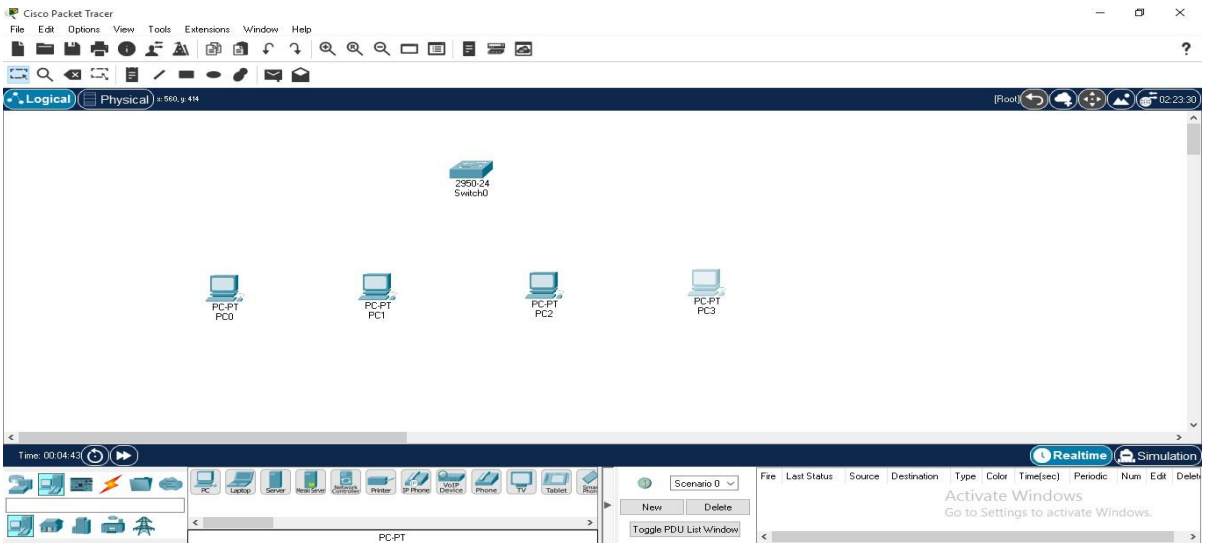
Objective: To understand how to create a wired LAN using switch in packet tracer.

Description:

STEP 01- Open PACKET TRACER and go to the bottom left side of packet tracer window andthen click on **SWITCHS** and select icon of switch 2950-24 then drag and drop that switch icon from it in the workspace.



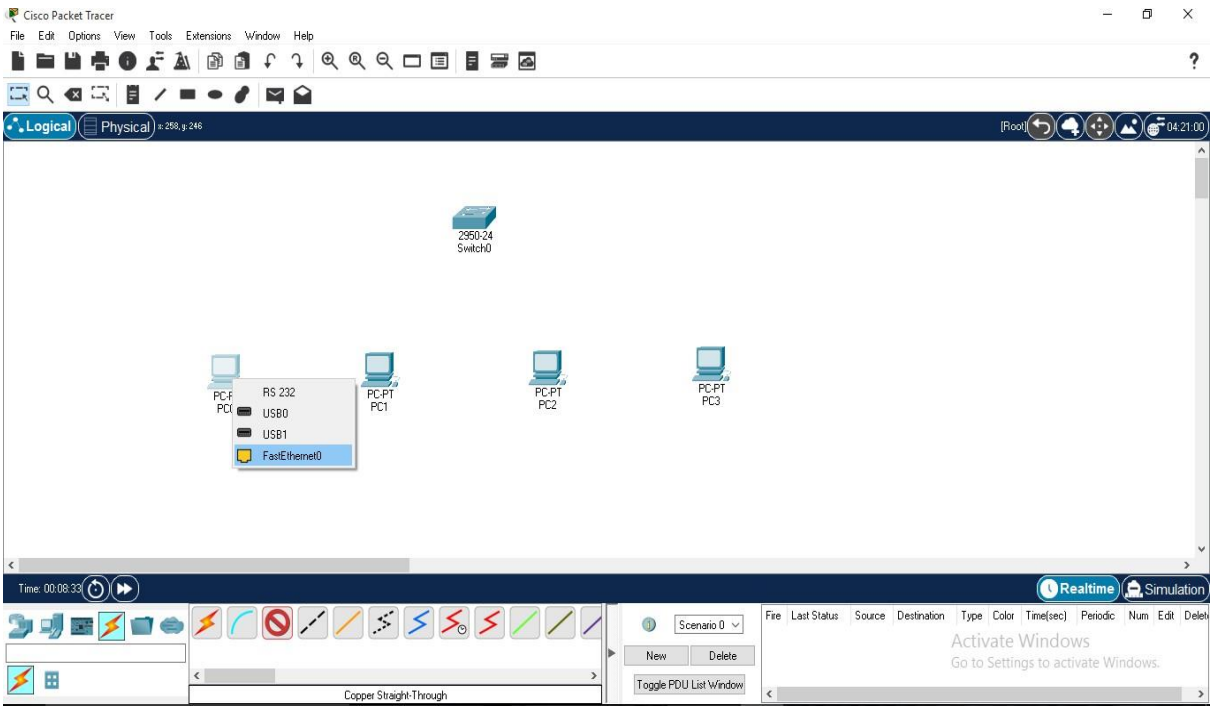
STEP 02 - Go to the bottom left side of packet tracer window and then click on **END DEVICES** and select icon of PC then drag and drop 4 PC icons from it in the workspace.

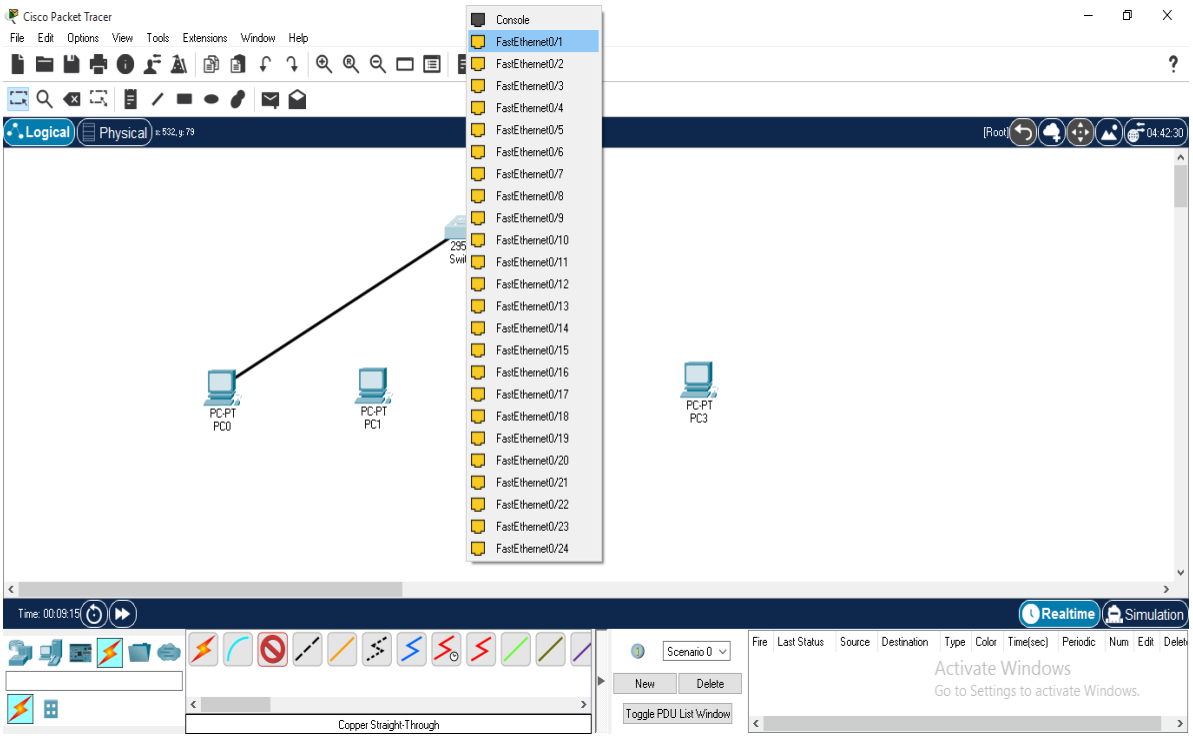


STEP 09 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After

STEP 03 - Then again go to the bottom left side of packet tracer window and then click on **CONNECTIONS** since we are using the **different devices** therefore select **Copper Straight-Through cable.** Then right click on PC0 and click on FastEthernet0 and join it with switch.

Since switches have many ports so we will use **FastEthernet0/1 for PC0.**



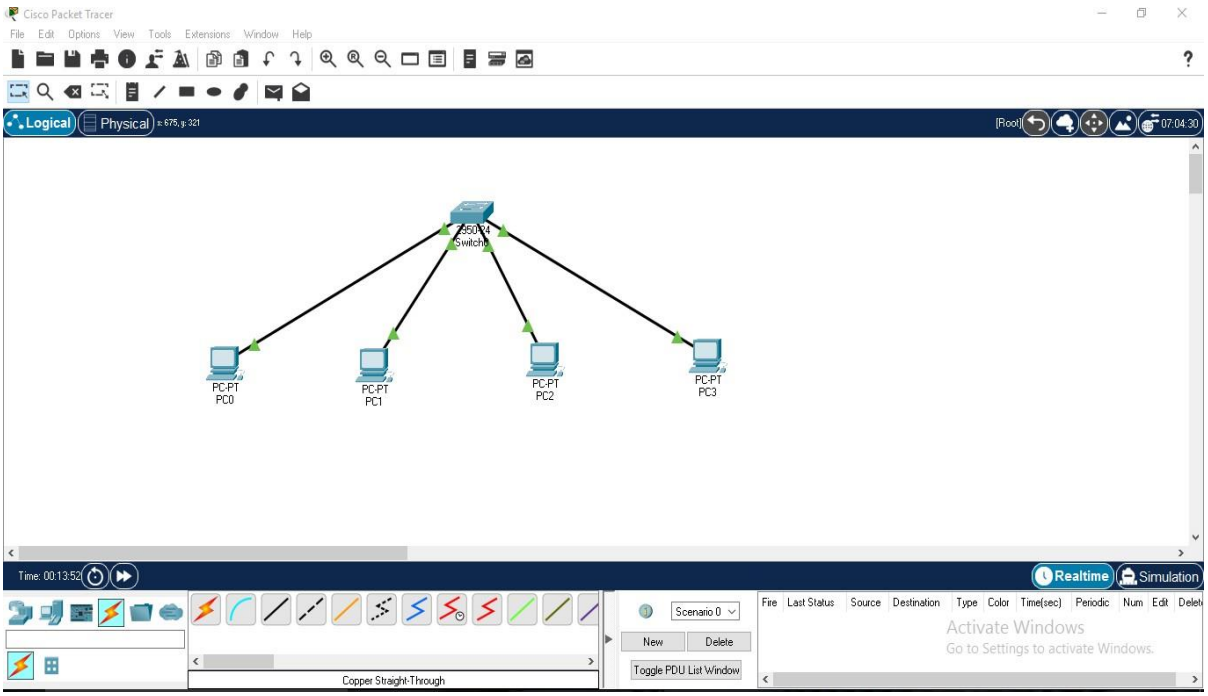


STEP 04 - Repeat above step for all other PC's as well.

STEP 05 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After

Switch port for PC1 is **FastEthernet0/2.**

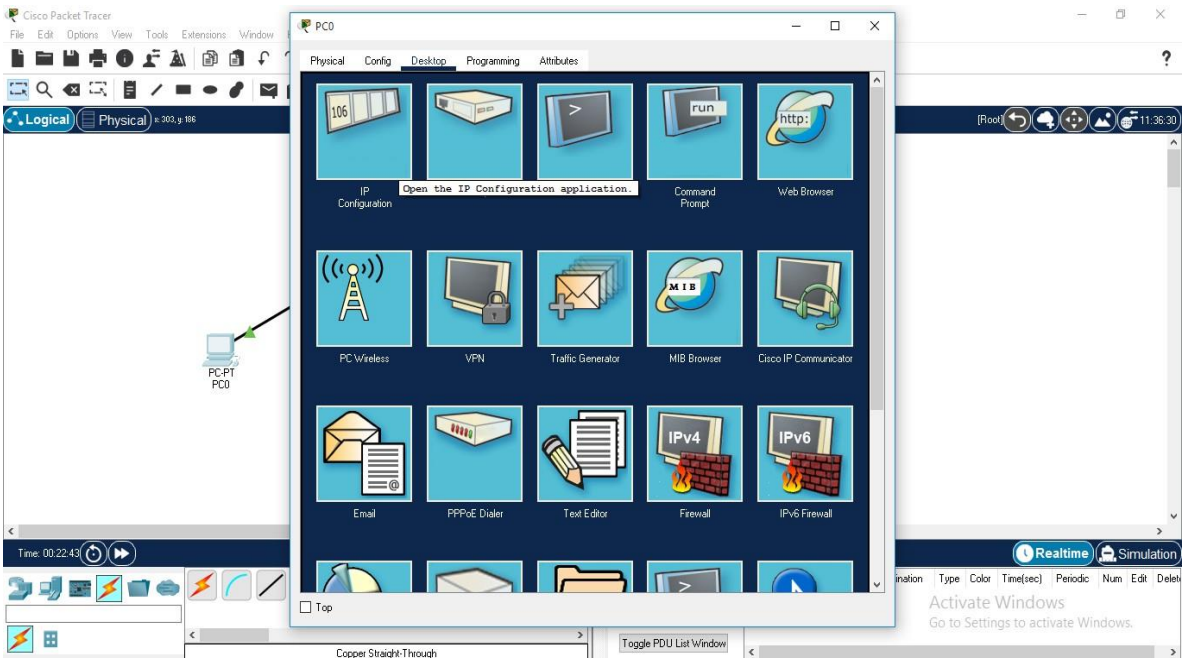
Switch port for PC2 is **FastEthernet0/3.**



Switch port for PC3 is **FastEthernet0/4.**

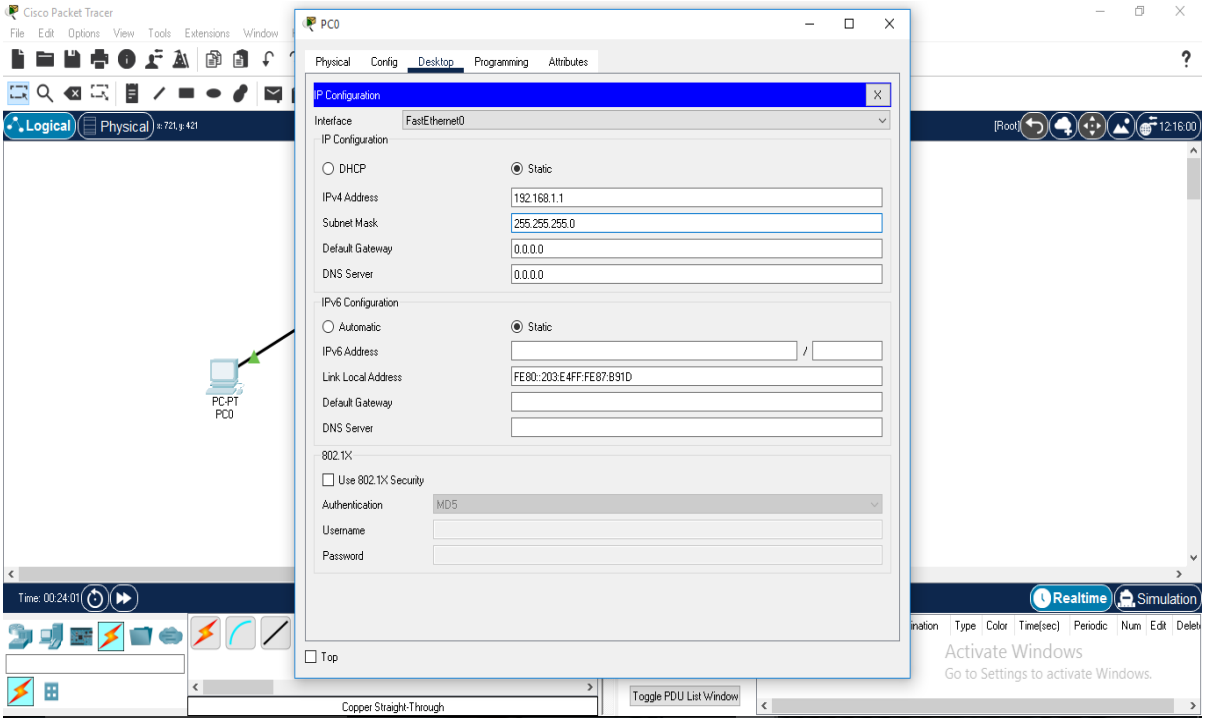
STEP 05 - Now we will configure the IP address for all PC's.

Click on PC0, a window will open and in that window click on the **desktop tab**. Then Click on IP Configuration.



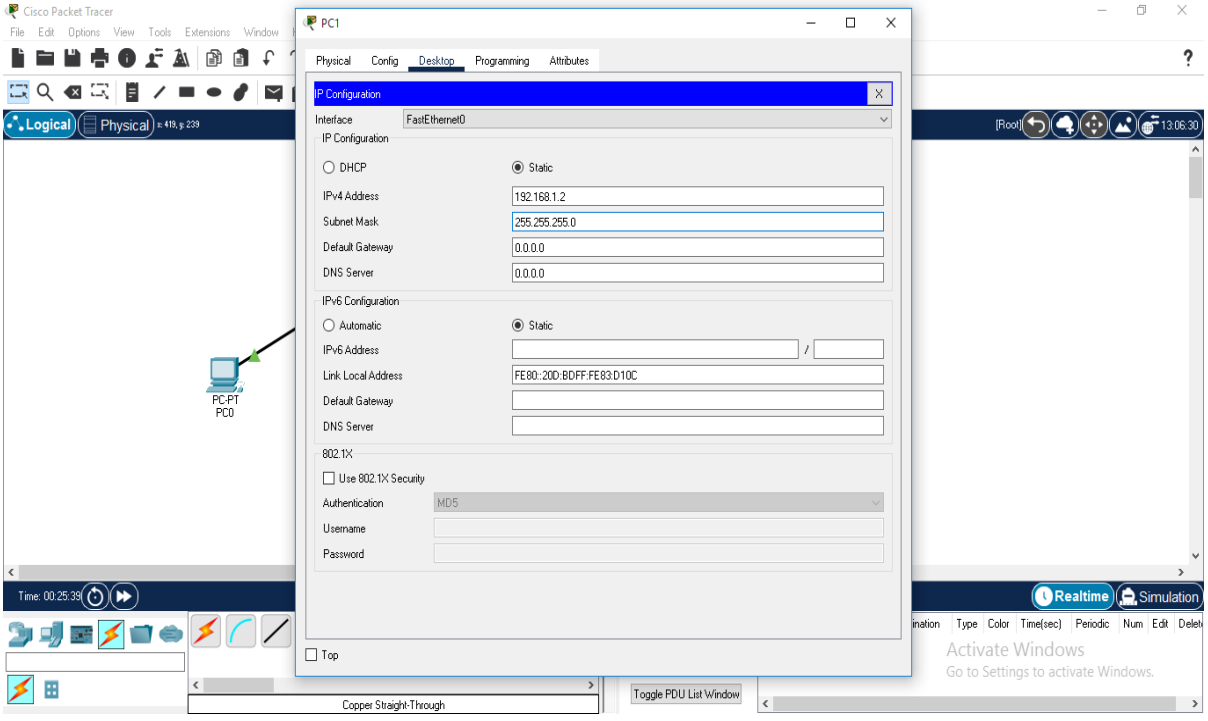
STEP 06 - Select **static** option and then give IPv4 Address (**for eg. 192.168.1.1**) for PC0.
STEP 09 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After After that click on Subnet Mask field it will fill automatically with default subnet mask.

After that the IP Configuration is done for PC0.



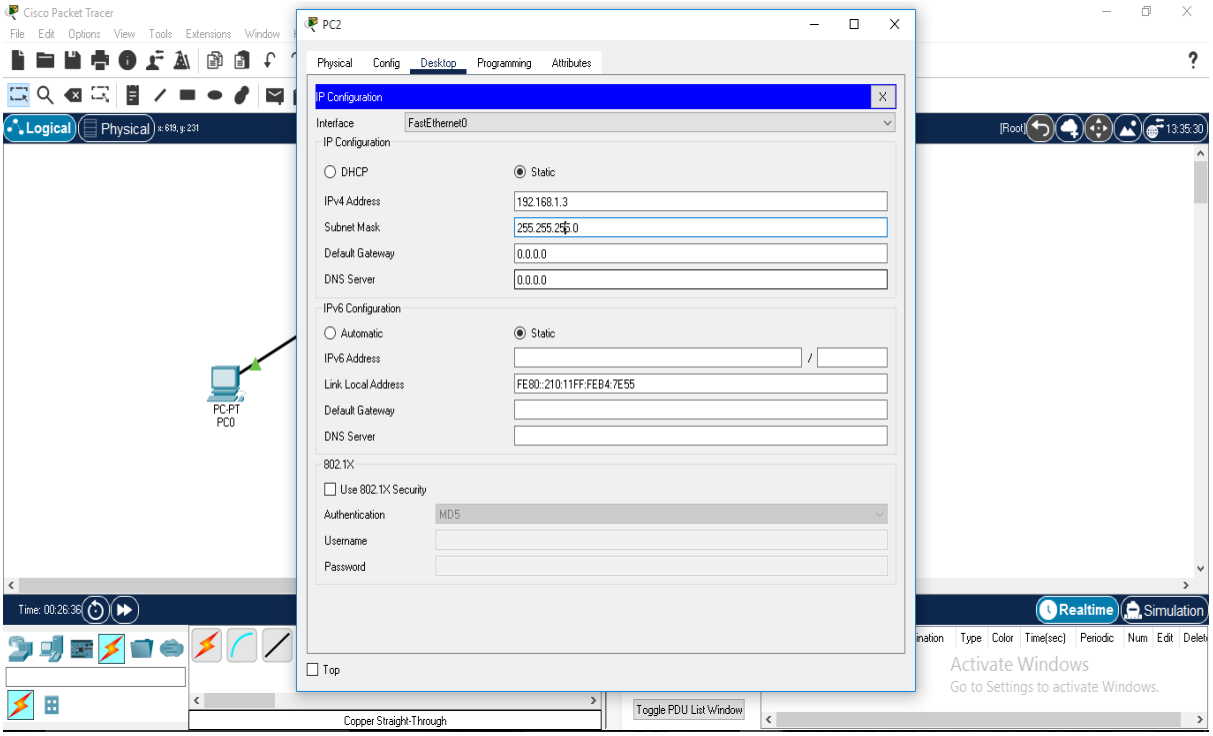
STEP 07 - Repeat above step for the IP address configuration of all other PC's.

FOR PC1, IP ADDRESS - 192.168.1.2

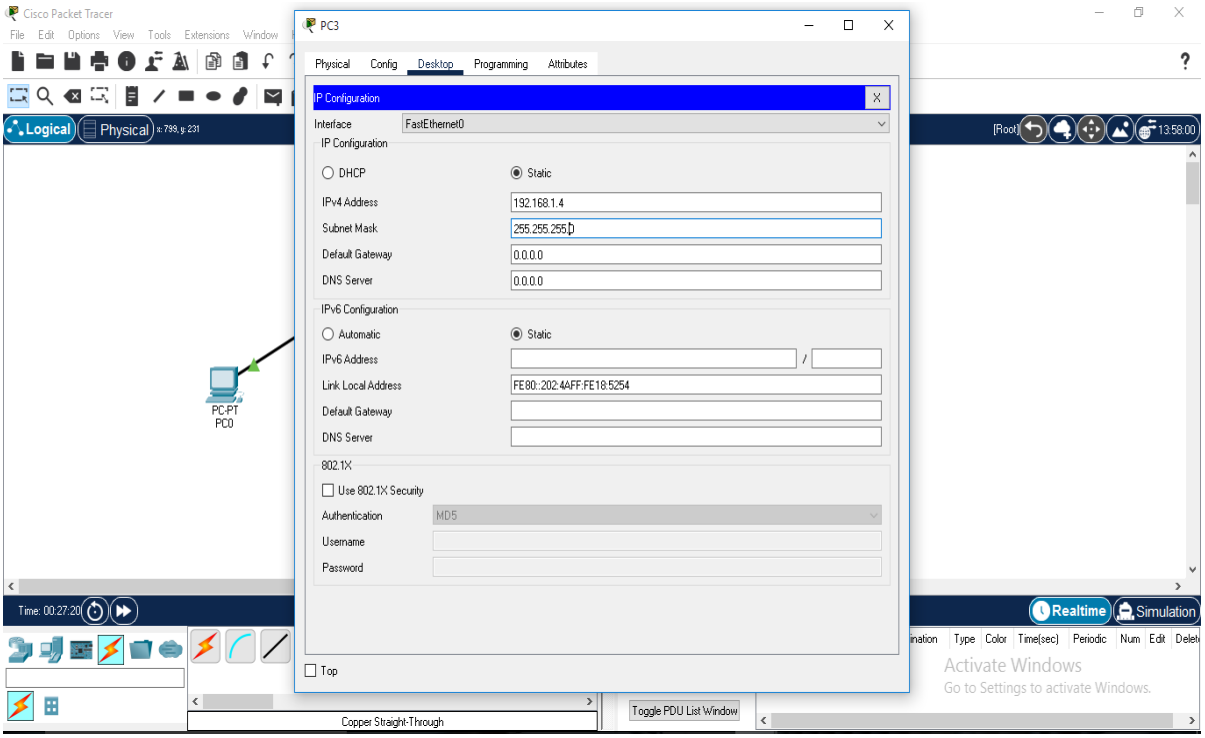


FOR PC2, IP ADDRESS - 192.168.1.3

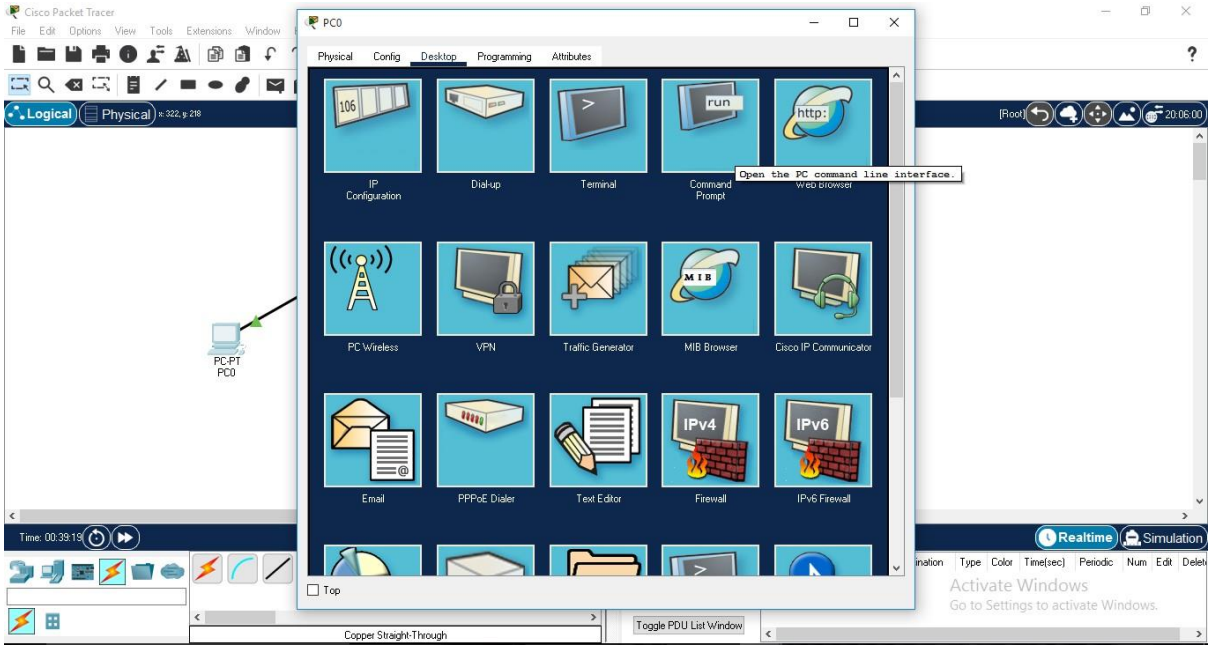
STEP 09 - Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After



FOR PC3, IP ADDRESS - 192.168.1.4

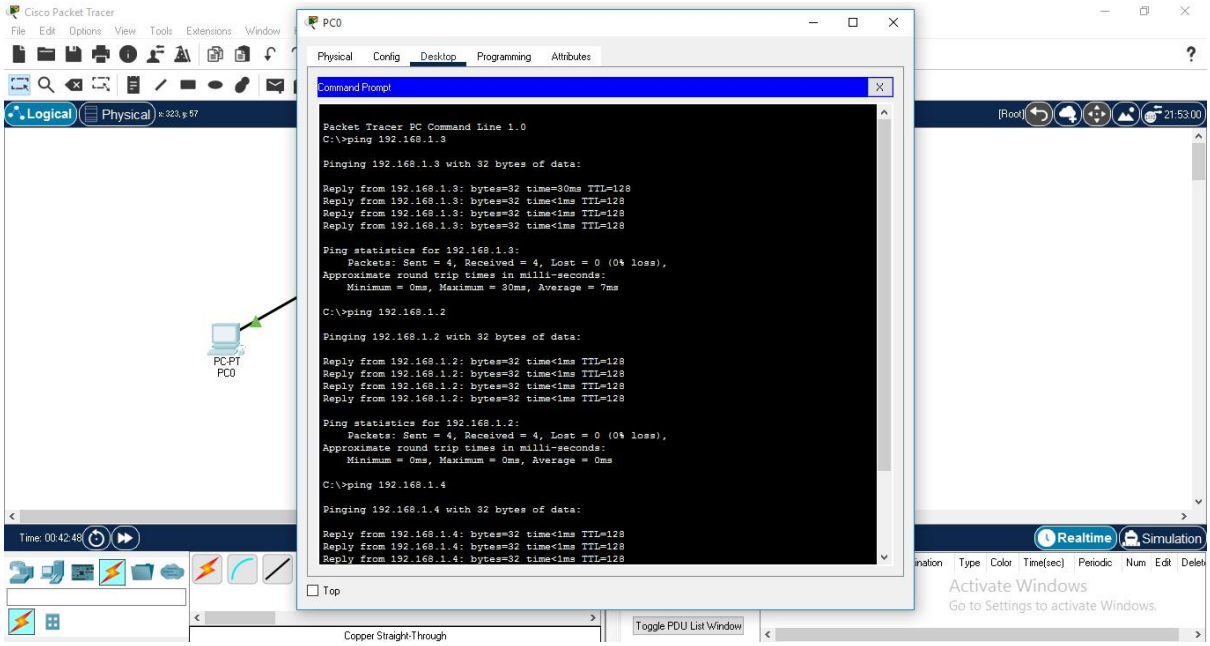


STEP 08 - Select static option and then give IPv4 Address to PC0 (eg. 192.168.1.2) then click on command prompt.



STEP 09 - Run **ping** command with IP address of any other PC (As we are checking on PC0 so we have to give the IP address of ANY other PC connected to switch) on terminal to check or to test the connectivity between the devices.

(We can perform same with any of the PCs as well to check connectivity using ping command.)



SO, FROM THE ABOVE COMMAND WE CAN SEE THAT ALL THE SYSTEMS ARE CONNECTED TO EACH OTHER.

STEP 09 – Select **static** option, and then give IPv4 Address (**for eg. 192.168.10.2**). After