

Name – Nishant barthwal

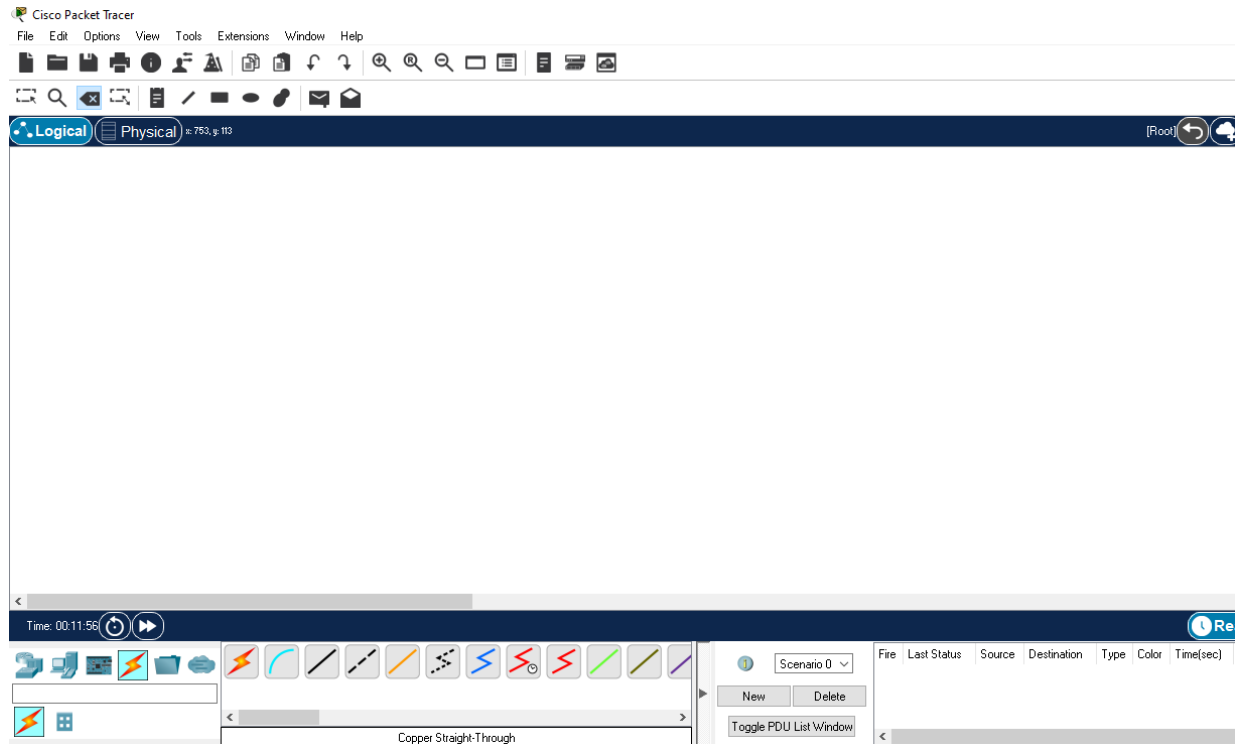
MCA 2b

CN mock test

Question1 - Design a network with five PCs connect with a switch using a packet tracer.

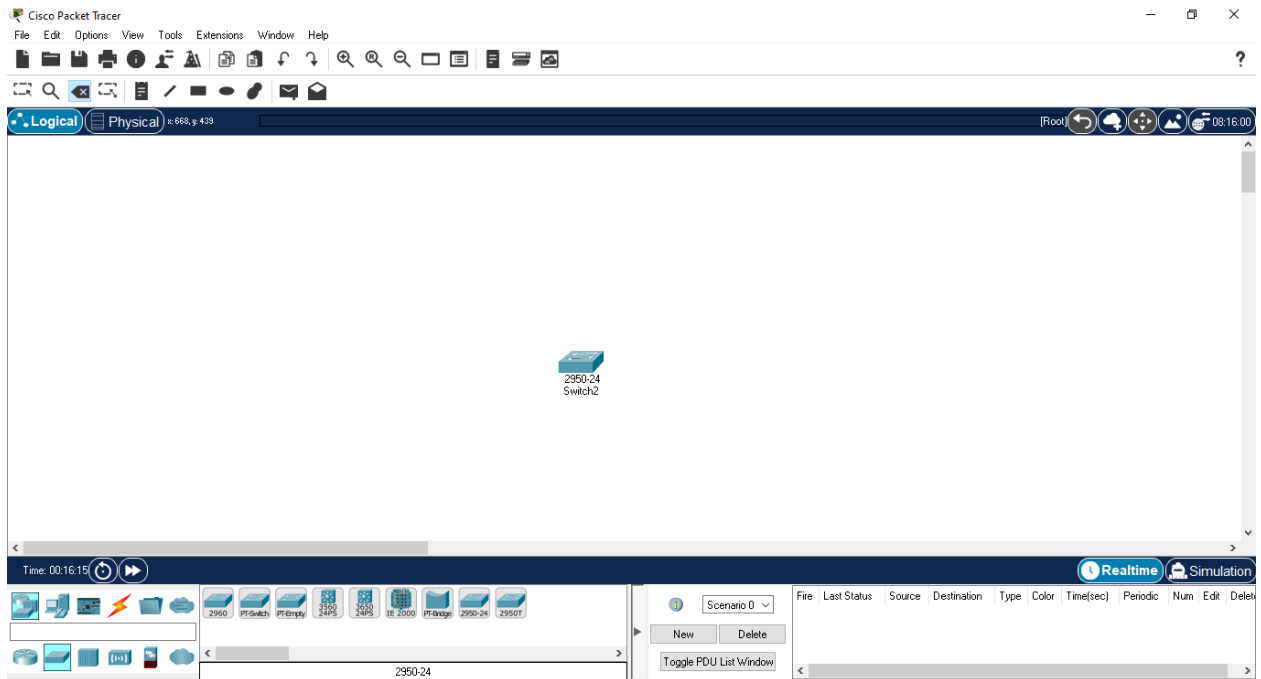
Step 1:

Open cisco packet tracer software and login as a guest.



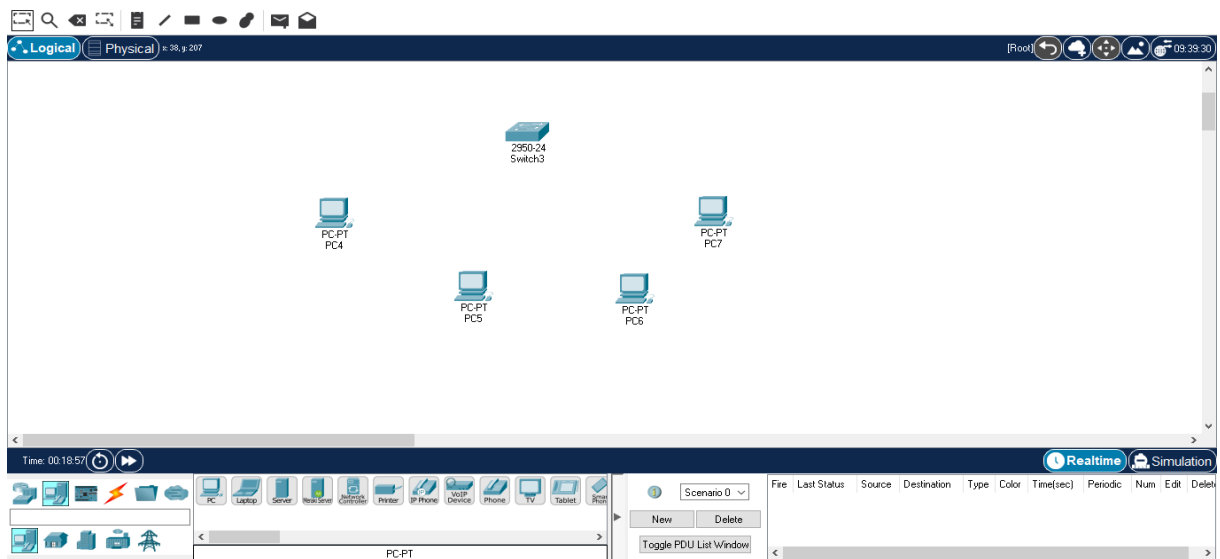
Step 2:

Go to bottom task bar and select “Network devices” and under that select switches and drag drop it to the logical board.



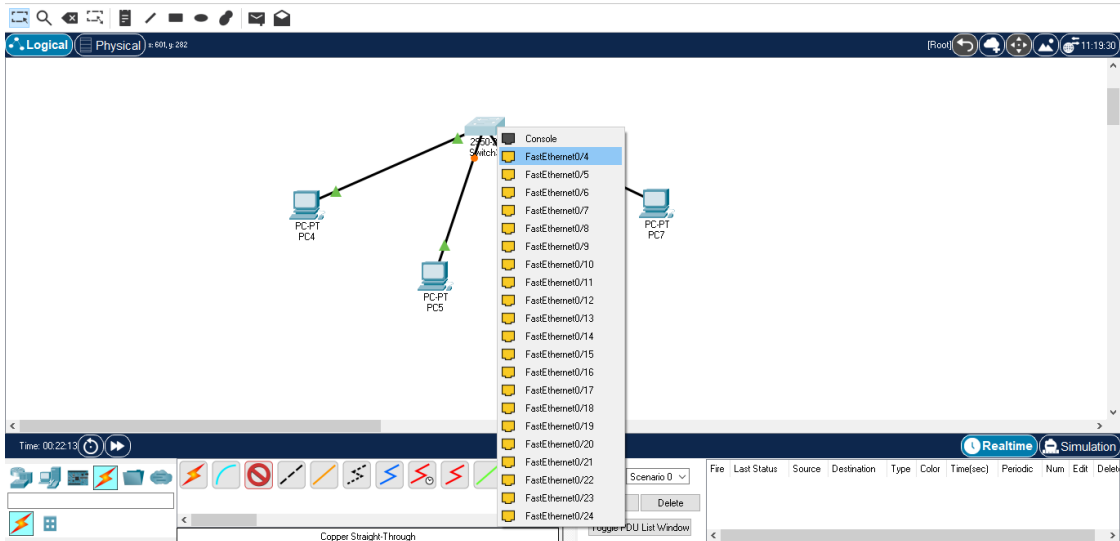
Step 3:

Now, go to “**End Devices**” and select **PC** and drag drop 4 of them into the logical board.



Step 4:

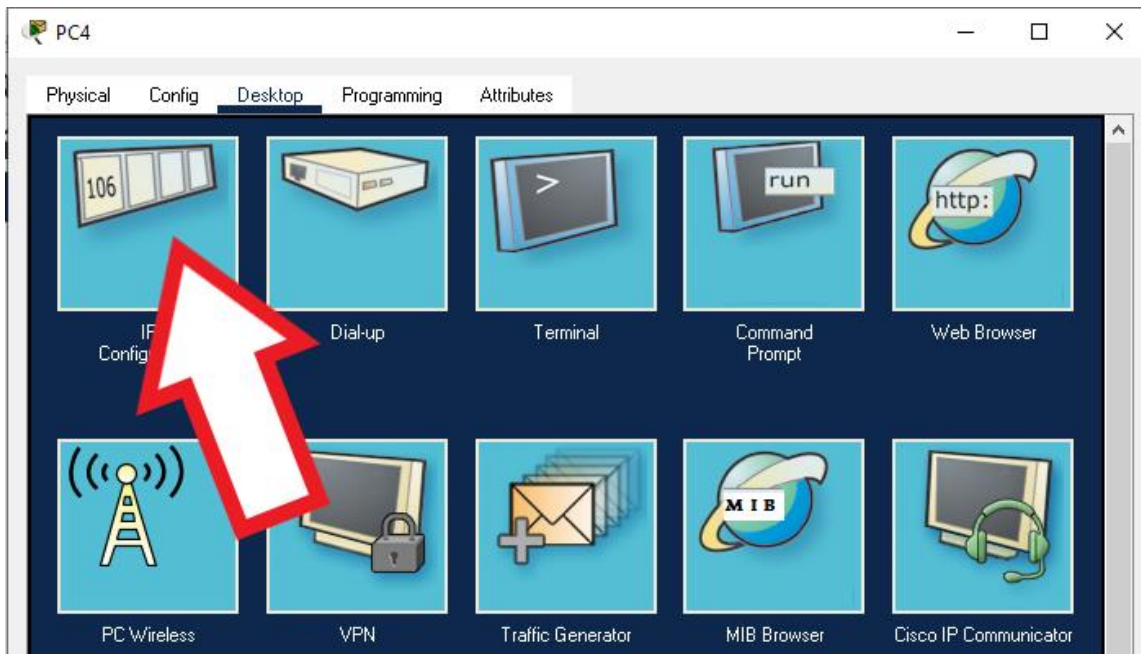
Now, select **copper straight-through** wire from the “Connections” tab and then connect all 4 pcs to the switch using **FastEthernet** connection.



Step 5:

Next, configure the ip by clicking on **PC PT PC4**.

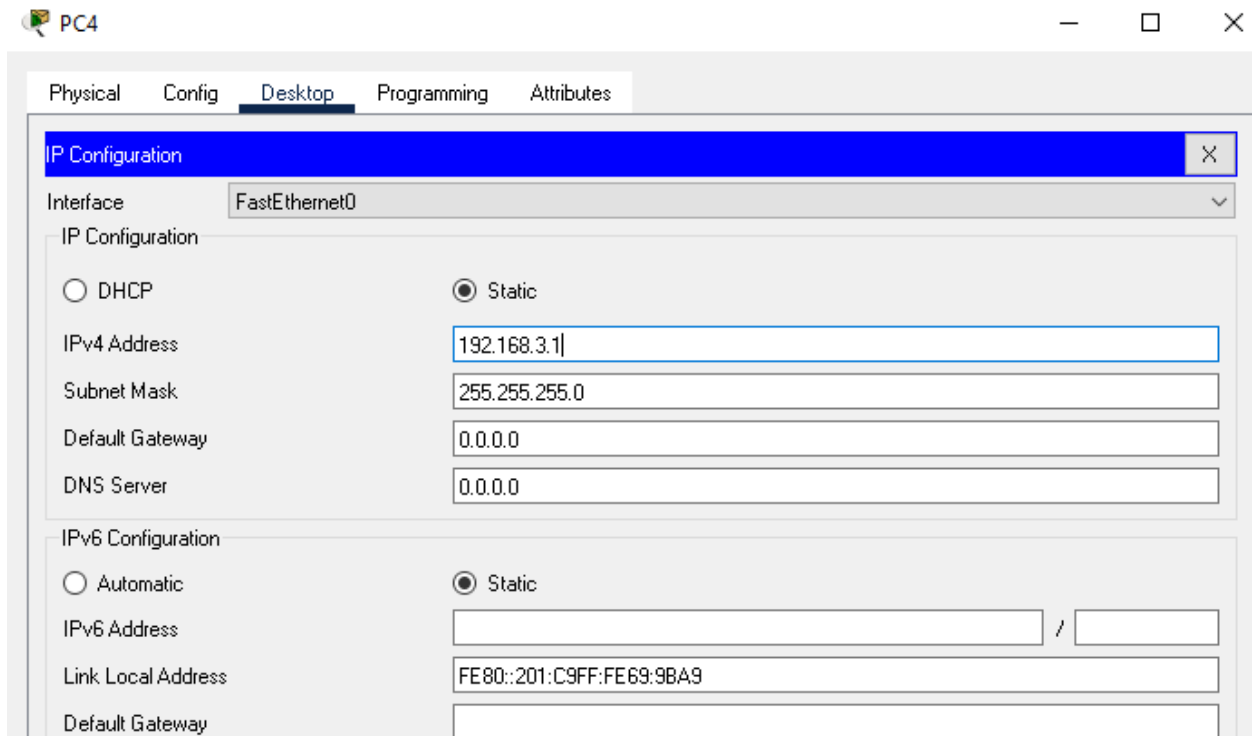
Go to the desktop tab and select ip configuration.



Step 6:

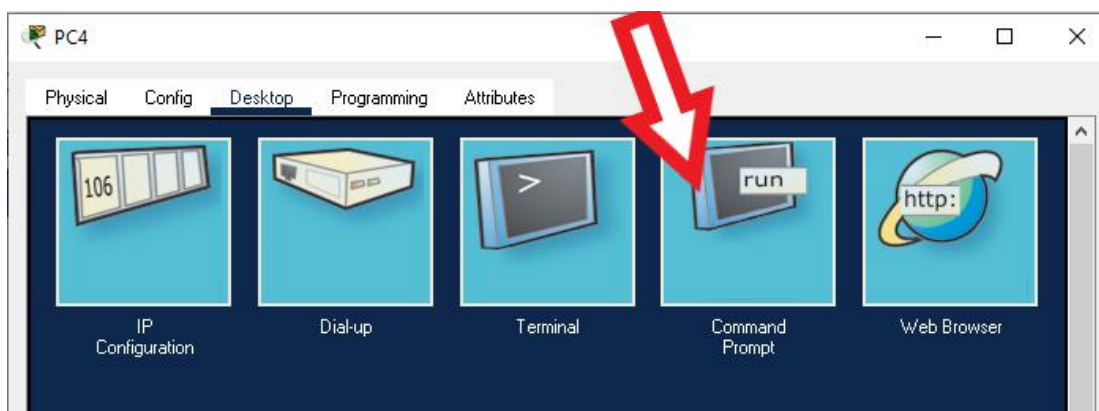
Set ip address for **PC4** as –

ip – 192.168.3.1 or 192.168.\_\_(as your wish)



Step 7: Repeat step 6 for remaining 3 Pc's.

Step 8: Check the connection between switch and Pc's using command prompt.

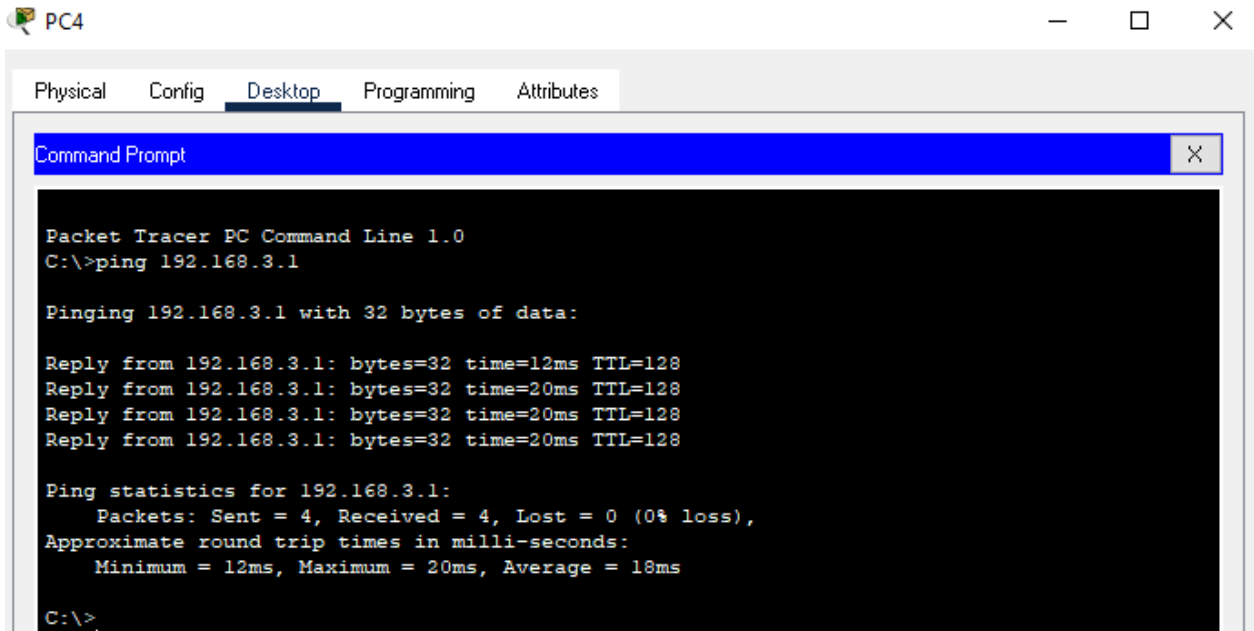


Step 9:

Open command prompt and type ping (ip of the PC selected)

ping 192.168.3.1

if the output on command prompt looks like the screensnap then the switch and Pc are connected successfully



```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.3.1

Pinging 192.168.3.1 with 32 bytes of data:

Reply from 192.168.3.1: bytes=32 time=12ms TTL=128
Reply from 192.168.3.1: bytes=32 time=20ms TTL=128
Reply from 192.168.3.1: bytes=32 time=20ms TTL=128
Reply from 192.168.3.1: bytes=32 time=20ms TTL=128

Ping statistics for 192.168.3.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 20ms, Average = 18ms

C:\>
```

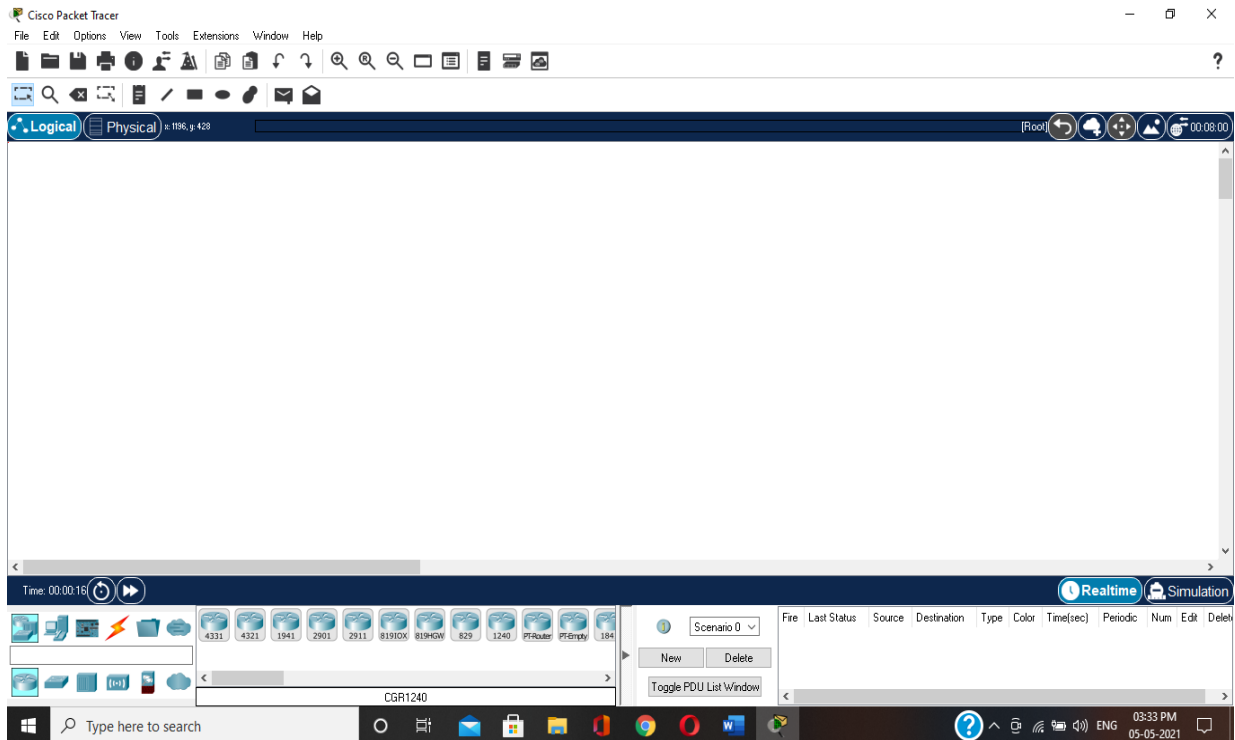
Step 10:

Repeat step 9 for remaining 3 PC's

If any error occurs, check the ip address for any mistakes and try again and if no error occurs then your 4 PC's and switch are connected successfully.

## Question 2 -Design a peer-to-peer network with two PCs.

**Step 1**-open software packet tracer

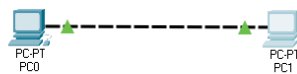


## Step 2-

drag icon general (Personal Computer) and drop to worksheets.

Choose Connection Type.

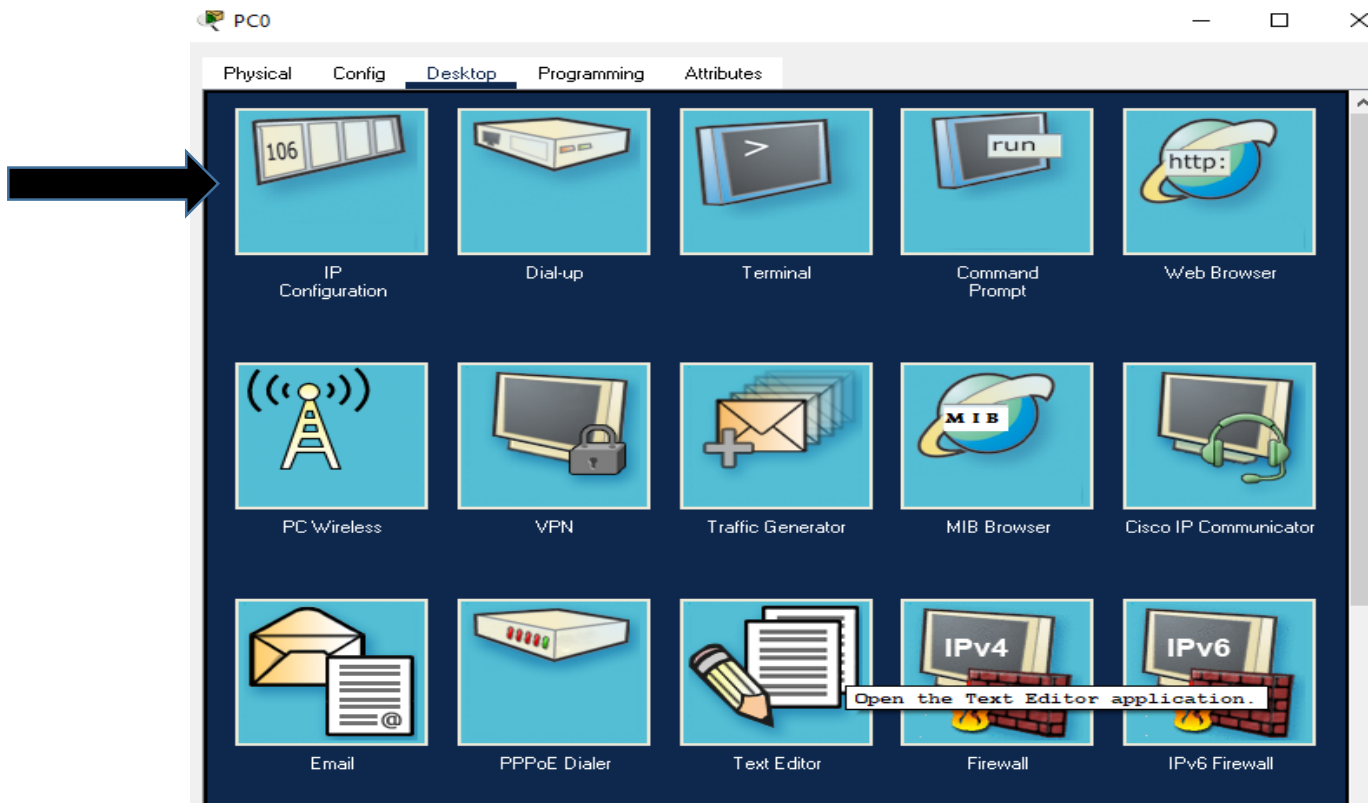
click PC0 then click PC1.



## Step 3-

Double click PC0.

Desktop tab, then click IP Configuration.



**Step 4-**

Set IP Address for Subnet Mask.  
IP Address PC0 = **192.168.2.1**  
Subnet Mask = **255.255.255.0**

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.2.1

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20D:BDFF:FE5D:55B0

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

**Step 5-**



close window PC0

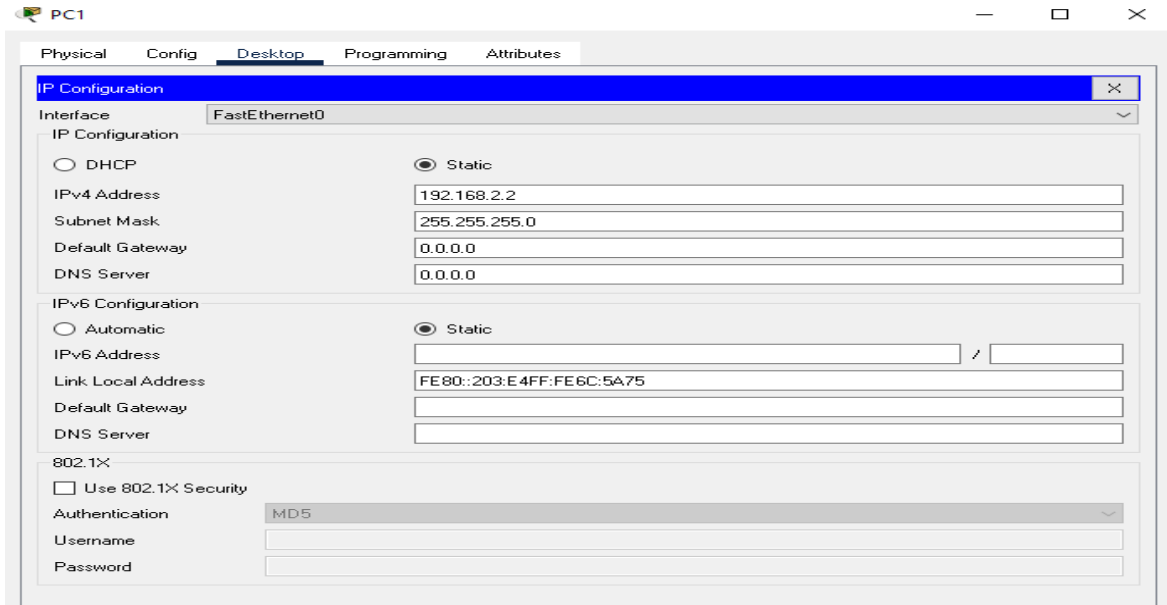
double click PC1

Desktop tab, then click IP Configuration.

set IP Address for Subnet Mask.

IP Address PC0 = 192.168.2.2

Subnet Mask = 255.255.255.0



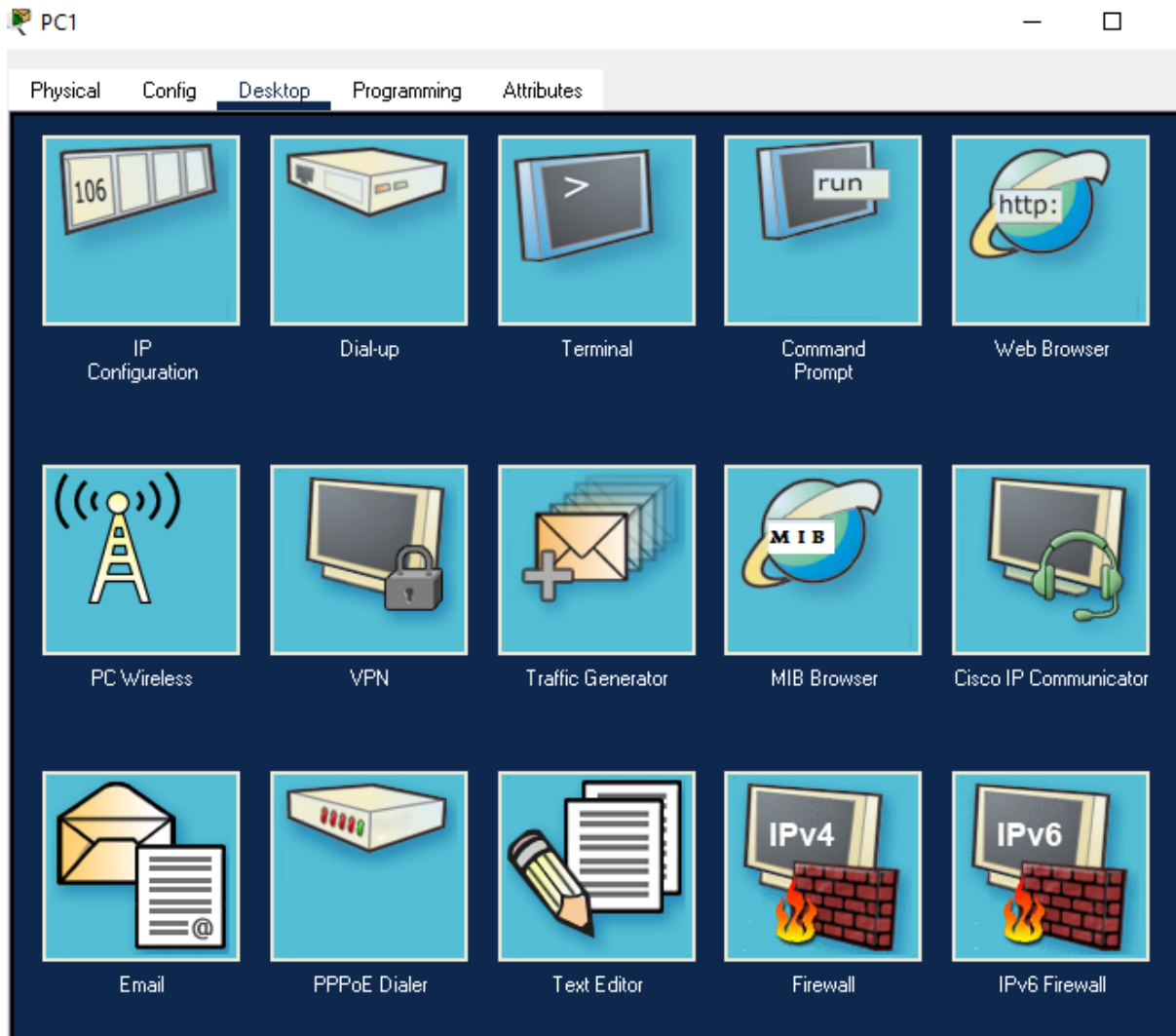
The screenshot shows the configuration window for PC1, specifically the Desktop tab. The IP Configuration section is active, showing settings for the FastEthernet0 interface. The IP Configuration is set to Static, with the IPv4 Address set to 192.168.2.2 and the Subnet Mask set to 255.255.255.0. The Default Gateway and DNS Server are both set to 0.0.0.0. The IPv6 Configuration section is also visible, with the IPv6 Address set to FE80::203:E4FF:FE6C:5A75. The 802.1X Security section is expanded, showing the Use 802.1X Security checkbox is checked, and the Authentication is set to MD5. The Username and Password fields are empty.

IP Configuration	
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IPv4 Address	192.168.2.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> Automatic	<input checked="" type="radio"/> Static
IPv6 Address	
Link Local Address	FE80::203:E4FF:FE6C:5A75
Default Gateway	
DNS Server	
802.1X	
<input checked="" type="checkbox"/> Use 802.1X Security	
Authentication	MD5
Username	
Password	

Step 6-

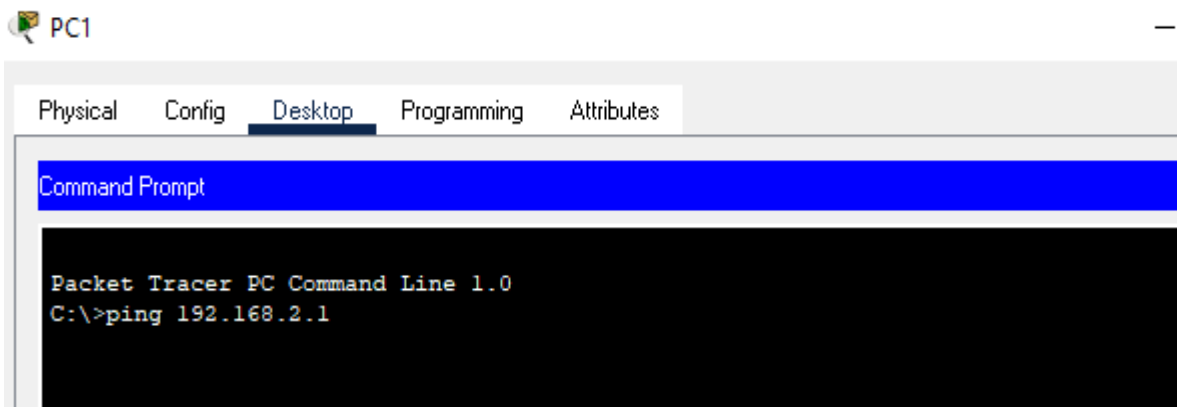


Desktop tab, then click Command Prompt



**Step 7-**

type ping 192.168.2.1 then enter.



### Step 8-

if it appears as shown below, it means PC0 and PC1 are connected and successful.

