EXPERIMENT-5(BUS TOPOLOGY)

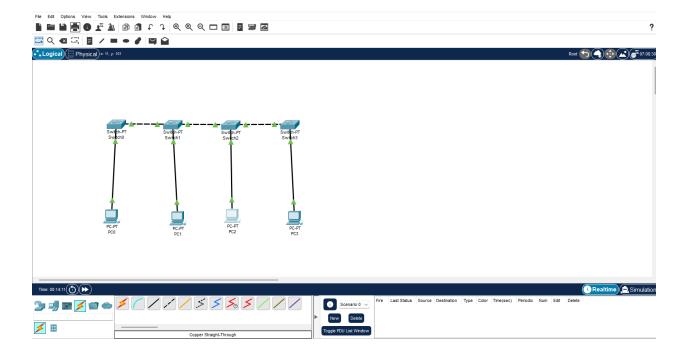
Steps to Configure and Setup Bus Topology:

Step 1: First, open the cisco packet tracer desktop and select the devices given below:

S.NO	Device	Model-Name
1.	PC	PC
2.	Switch	PT-Switch

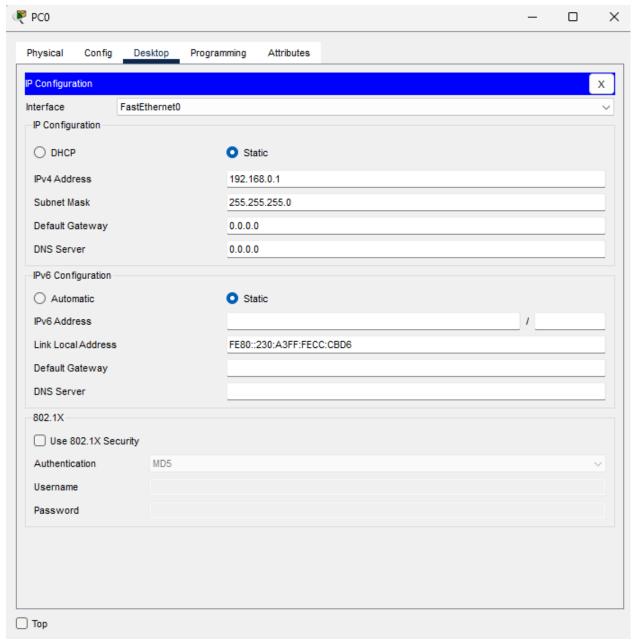
Device	IPv4 Address	Subnet Mask
рс0	192.168.0.1	255.255.255.0
pc1	192.168.0.2	255.255.255.0
pc2	192.168.0.3	255.255.255.0
рс3	192.168.0.4	255.255.255.0

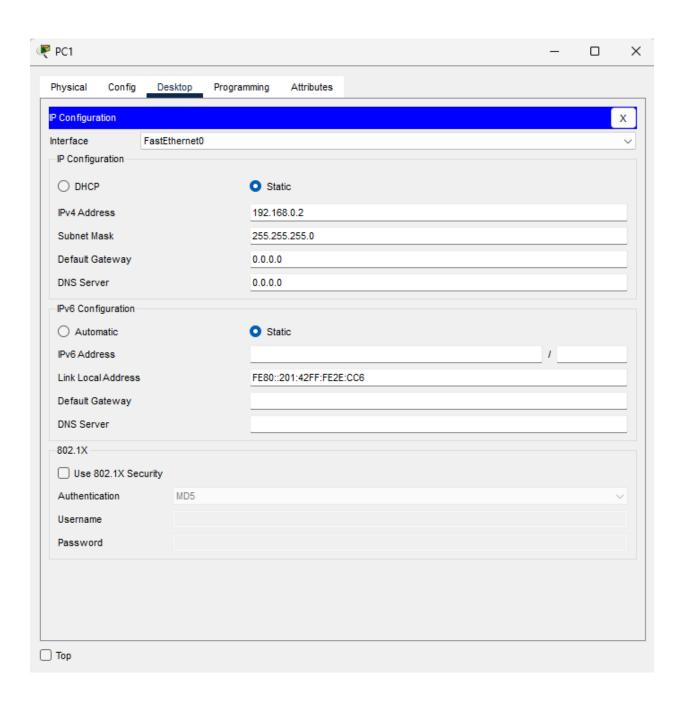
Then, create a network topology as shown below image: Use an Automatic connecting cable to connect the devices with others.

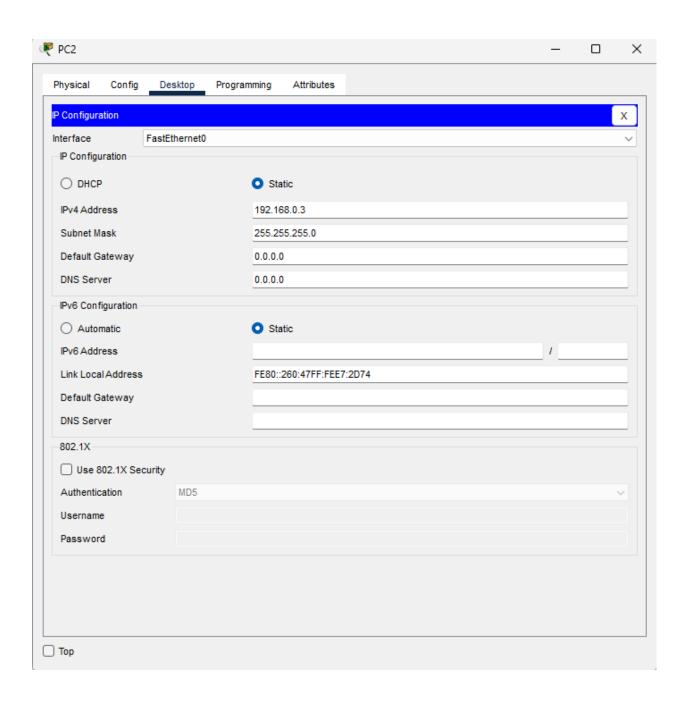


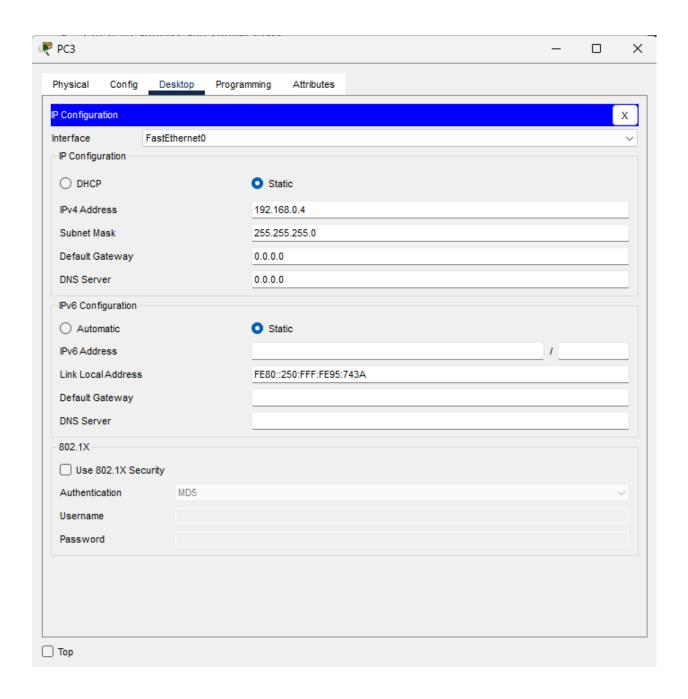
Step 2: Configure the PCs (hosts) with IPv4 address and Subnet Mask according to the IP addressing table given above.

- To assign an IP address in PC0, click on PC0.
- Then, go to desktop and then IP configuration and there you will IPv4
- configuration.
- Fill IPv4 address and subnet mask.



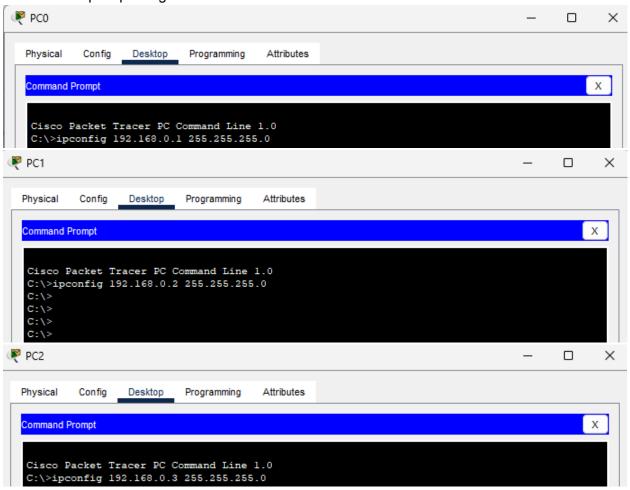


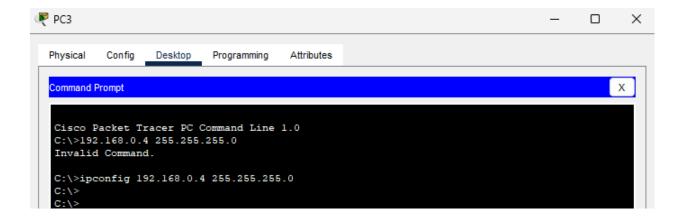




- Assigning an IP address using the ipconfig command, or we can also assign an
- IP address with the help of a command.
- Go to the command terminal of the PC.

- Then, type ipconfig <IPv4 address><subnet mask><default gateway>(if needed)
- Example: ipconfig 192.168.0.1 255.255.255.0



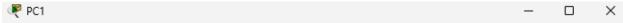


Repeat the same procedure with other PCs to configure them thoroughly.

Step 3: Verify the connection by pinging the IP address of any host in PC0.

- Use the ping command to verify the connection.
- As we can see we are getting replies from a targeted node on both PCs.
- Hence the connection is verified.

```
PC0
                                                                                        ×
 Physical
          Config
                  Desktop Programming
                                        Attributes
 Command Prompt
                                                                                             Х
 C:\>ping 192.168.0.4
 Pinging 192.168.0.4 with 32 bytes of data:
  Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
  Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
  Reply from 192.168.0.4: bytes=32 time<lms TTL=128
  Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
  Ping statistics for 192.168.0.4:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms
  C:\>
  C:\>
```



Physical Config Desktop Programming Attributes Command Prompt Х C:\>ping 192.168.0.3 Pinging 192.168.0.3 with 32 bytes of data: Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Ping statistics for 192.168.0.3: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms C:\> C:\>

```
₱PC2

                                                                                                       Х
  Physical Config
                      Desktop
                                Programming
                                               Attributes
  Command Prompt
                                                                                                            Х
  C:\>ping 192.168.0.1
  Pinging 192.168.0.1 with 32 bytes of data:
  Reply from 192.168.0.1: bytes=32 time<1ms TTL=128 Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
  Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
  Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
  Ping statistics for 192.168.0.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
       Minimum = 0ms, Maximum = 0ms, Average = 0ms
   C:\>
  C:\>
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