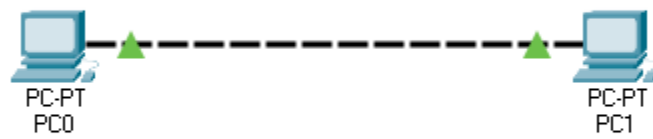**Name: Sagar Bhatia**
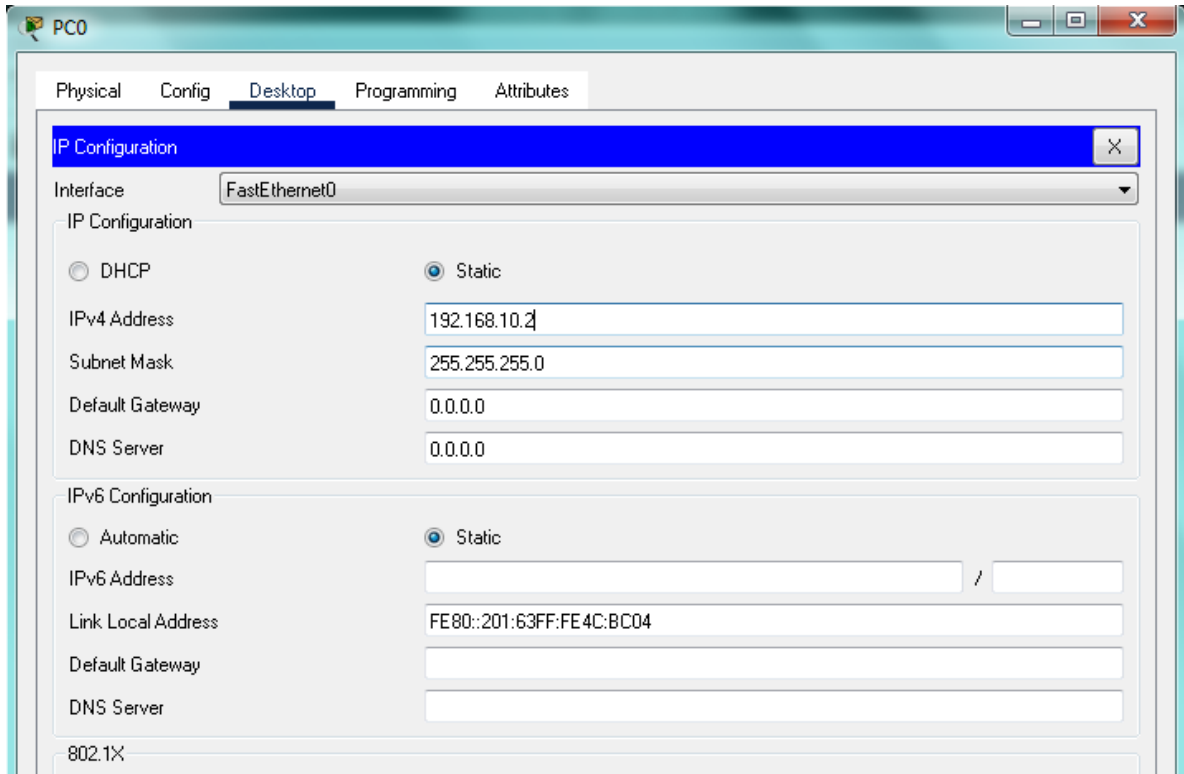**Course: MCA-2-B**

Question 2: Design a network to connect with two PCs.
Step 1: Establishing a connection between pc0 and pc1.
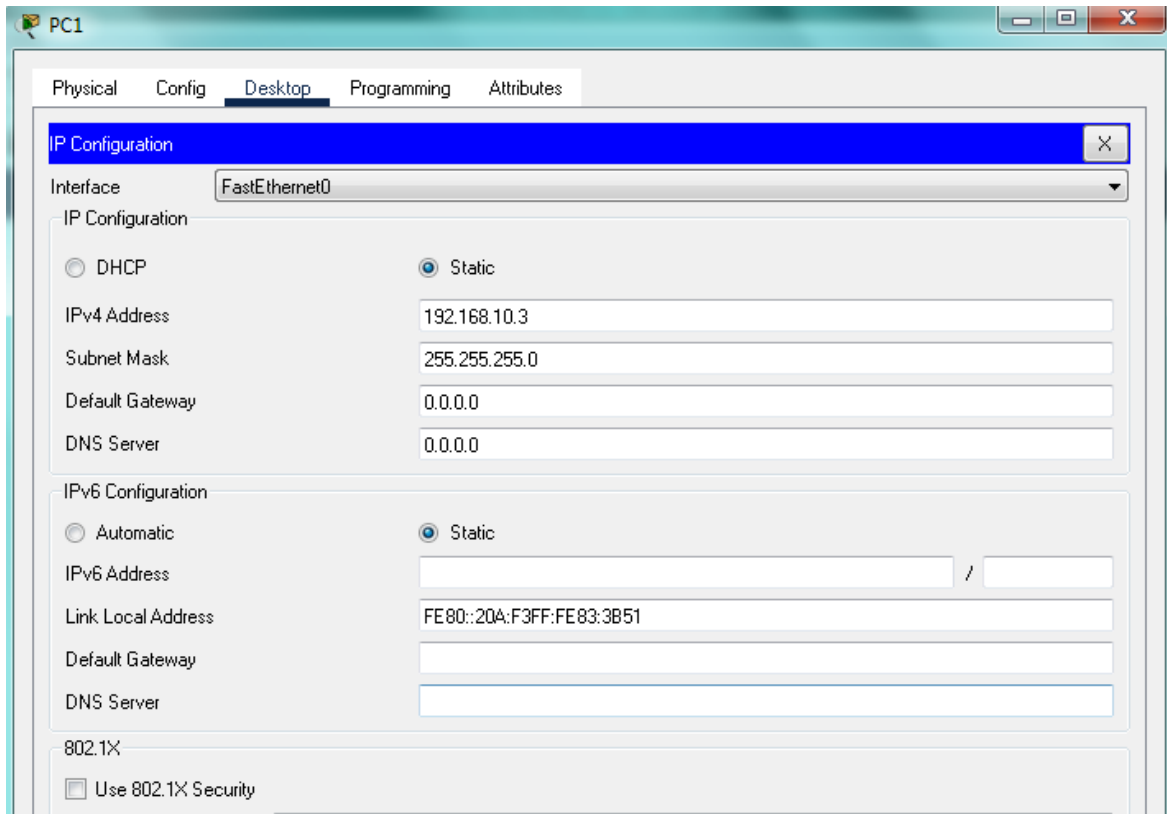

PC-PT
PC0

PC-PT
PC1

Step 2: Providing IP address and subnet mask to both the PCs.

PC0

Physical   Config   Desktop   Programming   Attributes

IP Configuration

Interface   FastEthernet0

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.10.2

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::201:63FF:FE4C:BC04

Default Gateway

DNS Server

802.1X

PC1

Physical   Config   Desktop   Programming   Attributes

IP Configuration

Interface   FastEthernet0
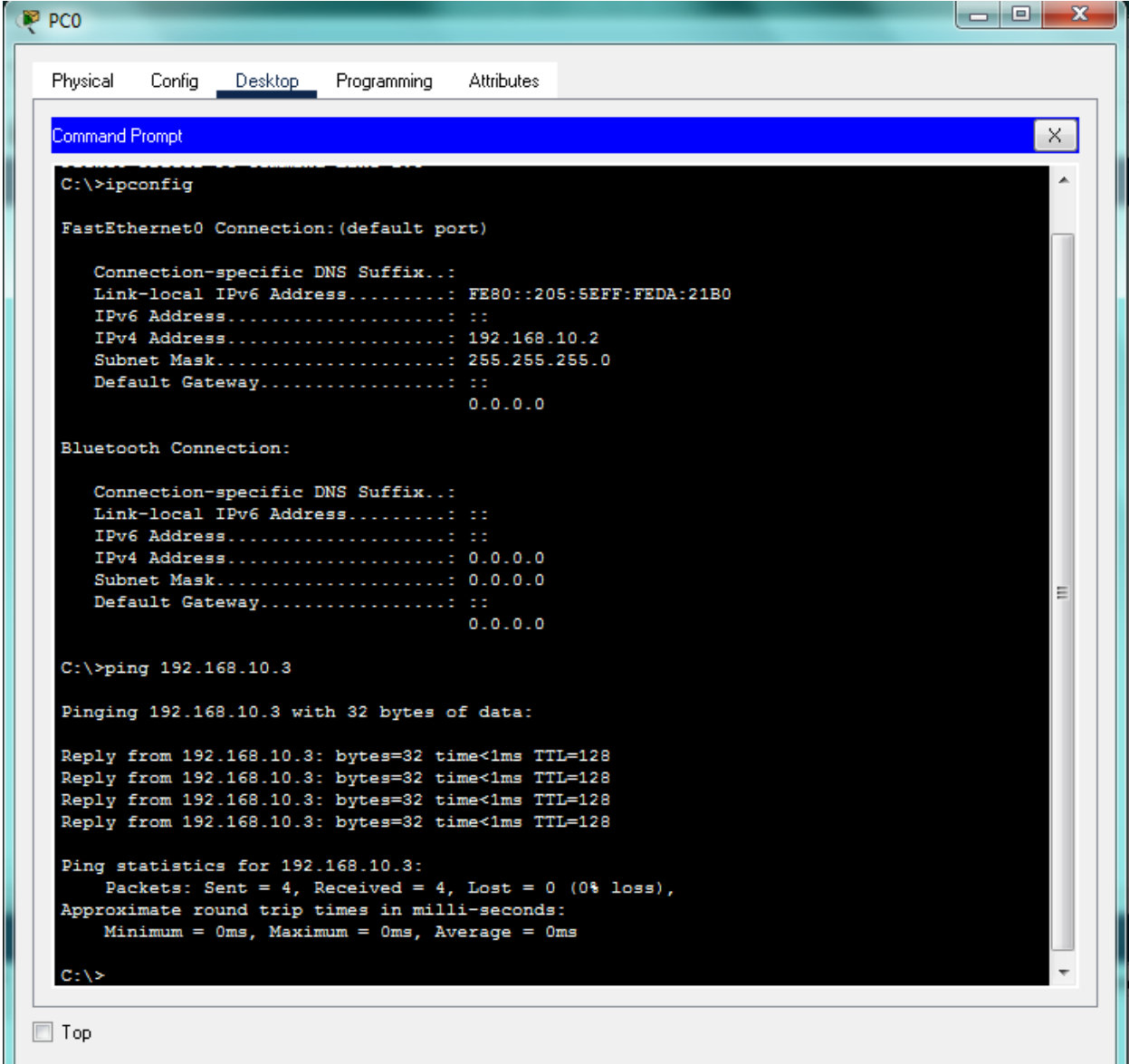
IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.10.3

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::20A:F3FF:FE83:3B51

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Step 3: Configuring the IP address of the PCs and checking connection from pc0 to pc1 and vice versa with the help of ping command.

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix..:
    Link-local IPv6 Address..........: FE80::290:21FF:FEA4:2E62
    IPv6 Address.....................: ::
    IPv4 Address.....................: 192.168.10.3
    Subnet Mask......................: 255.255.255.0
    Default Gateway..................: ::
                                       0.0.0.0

Bluetooth Connection:

    Connection-specific DNS Suffix..:
    Link-local IPv6 Address..........: ::
    IPv6 Address.....................: ::
    IPv4 Address.....................: 0.0.0.0
    Subnet Mask......................: 0.0.0.0
    Default Gateway..................: ::
                                       0.0.0.0

C:\>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:

Reply from 192.168.10.2: bytes=32 time<1ms TTL=128
Reply from 192.168.10.2: bytes=32 time<1ms TTL=128
Reply from 192.168.10.2: bytes=32 time<1ms TTL=128
Reply from 192.168.10.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```