

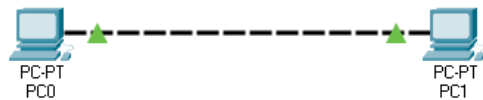
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Course - MCA – 2<sup>nd</sup> SEM  
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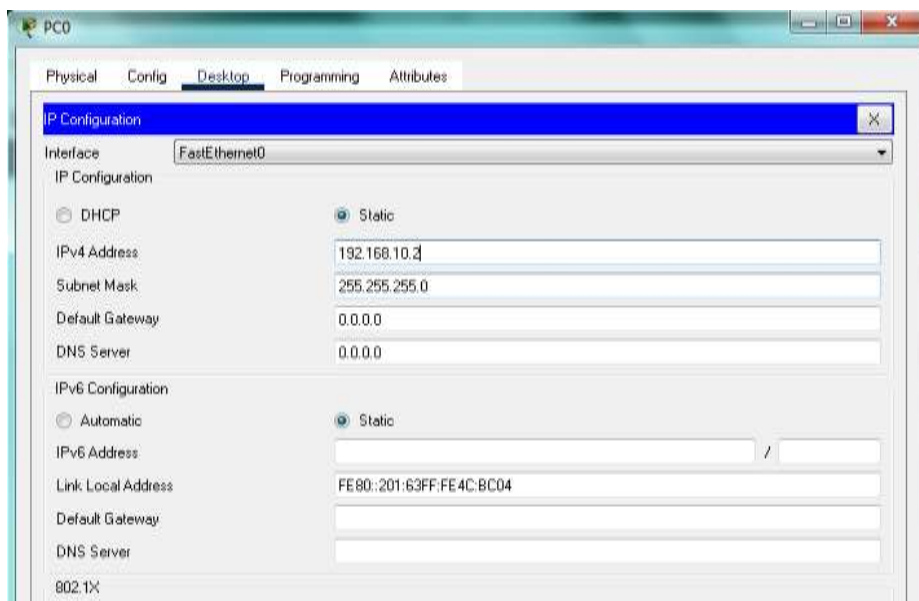
## QUESTION 2

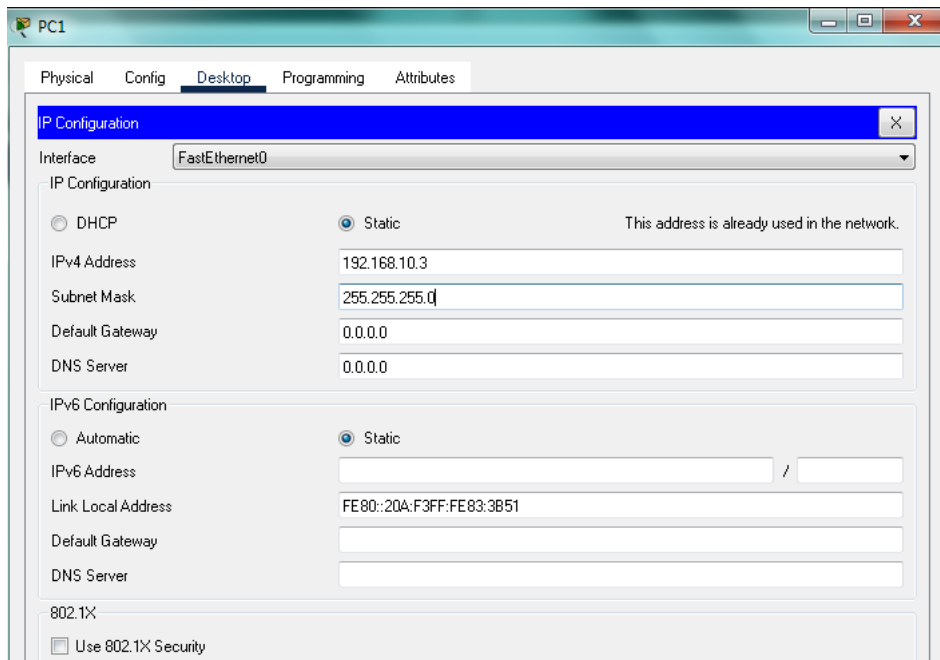
**Question :** Design a peer-to-peer network with two PCs.

**Step 1:** Establishing a connection between pc0 and pc1.

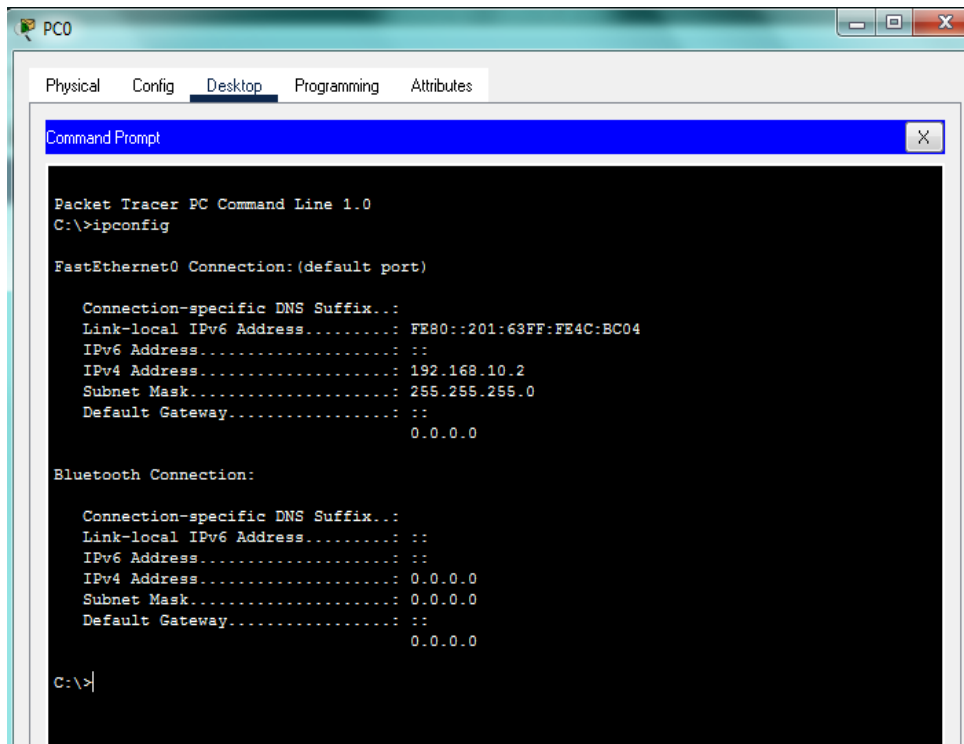


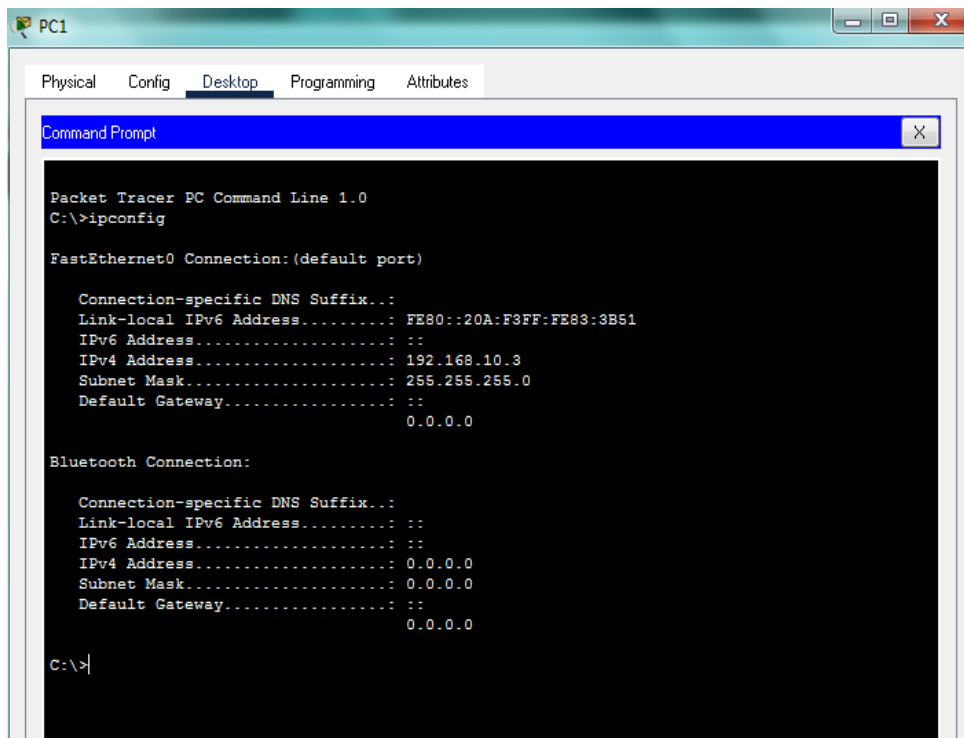
**Step 2:** Providing IP address to both the pcs.





### Step 3: Configuring the IP address of the pcs.





The screenshot shows a Packet Tracer PC window for PC1. The 'Desktop' tab is active, displaying a Command Prompt window. The command prompt shows the output of the 'ipconfig' command, displaying network configuration for both FastEthernet0 and Bluetooth connections. The FastEthernet0 configuration includes a Link-local IPv6 Address, an IPv6 Address, an IPv4 Address of 192.168.10.3, a Subnet Mask of 255.255.255.0, and a Default Gateway of 0.0.0.0. The Bluetooth connection shows all IP addresses and the default gateway as 0.0.0.0.

```
PC1
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

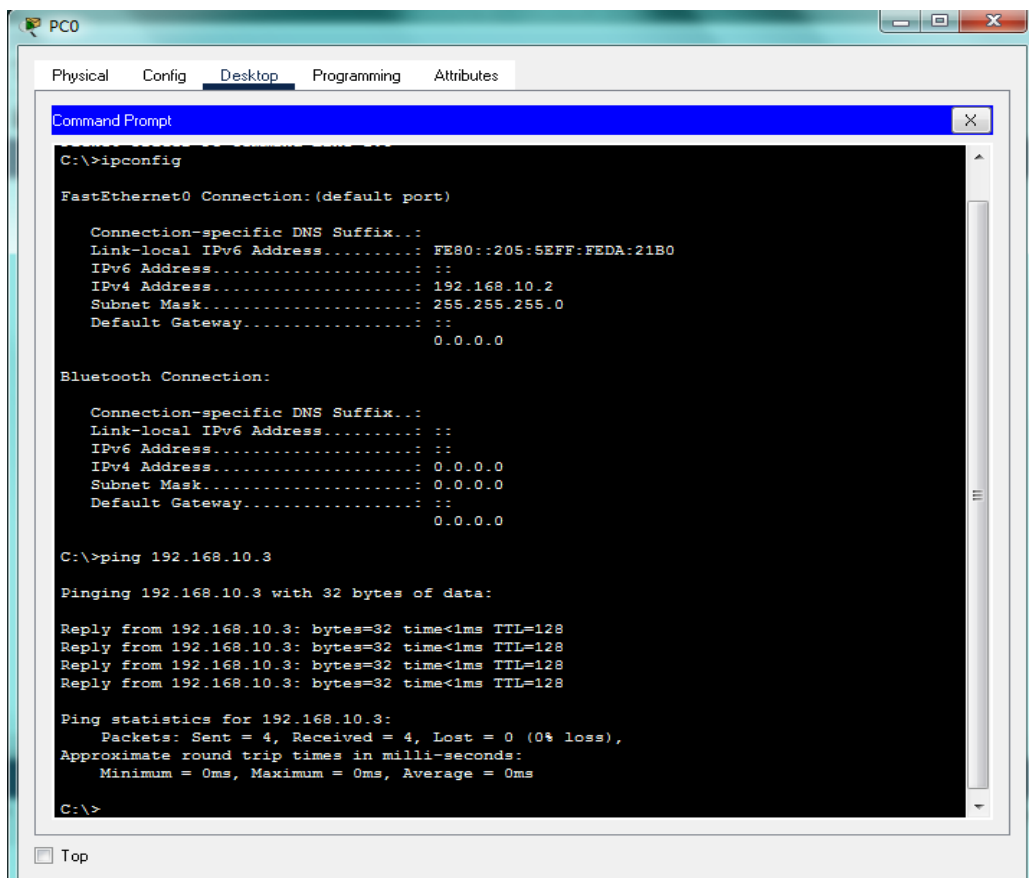
    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::20A:F3FF:FE83:3B51
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.3
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                0.0.0.0

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:\>
```

#### Step 4: Connecting pc0 to pc1 and vice versa.



The screenshot shows a Packet Tracer PC window for PC0. The 'Desktop' tab is active, displaying a Command Prompt window. The command prompt shows the output of the 'ipconfig' command, displaying network configuration for both FastEthernet0 and Bluetooth connections. The FastEthernet0 configuration includes a Link-local IPv6 Address, an IPv6 Address, an IPv4 Address of 192.168.10.2, a Subnet Mask of 255.255.255.0, and a Default Gateway of 0.0.0.0. The Bluetooth connection shows all IP addresses and the default gateway as 0.0.0.0. Below the configuration, the command 'ping 192.168.10.3' is executed, showing four successful replies with 32 bytes of data, a time of less than 1ms, and a TTL of 128. The ping statistics for 192.168.10.3 show 4 packets sent, 4 received, 0% loss, and approximate round trip times of 0ms.

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ipconfig

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::205:5EFF:FEDA:21B0
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.2
    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 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

