

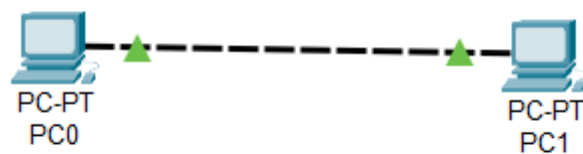
Practical – 1

Aim of the Practical :-

To study and execute the basic commands of Cisco Packet Tracer by configuring a simple peer-to-peer network and verifying connectivity using ping and tracer utilities. Additionally, to assign IP addresses manually and test end-to-end communication across devices. As an extension, configure static routes or subnetting to demonstrate inter-network communication.

Procedure :-

1. Peer to Peer Network



PC IPv4 Addresses :-

PC0 - 192.168.1.1

PC1 - 192.168.1.2

So we basically give different Ip addresses to the two PC's and then test the connection by pinging from PC0 to PC1 or vice versa.

PC0

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000A.41CE.65E6

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address /

Link Local Address: FE80::20A:41FF:FECE:65E6

PC1

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.C7D7.DA6A

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

IPv6 Configuration

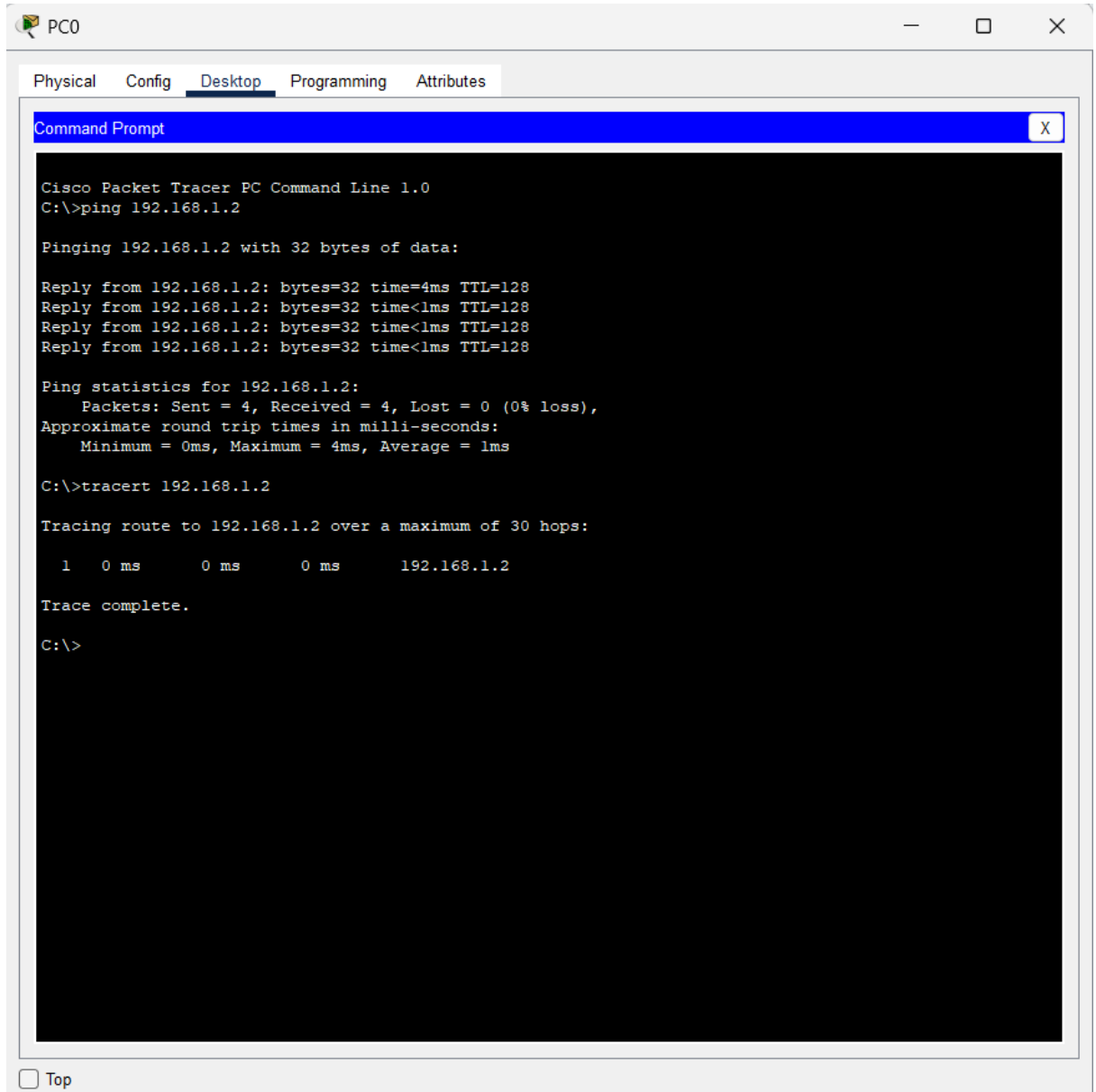
☐ Automatic

☒ Static

IPv6 Address /

Link Local Address: FE80::201:C7FF:FED7:DA6A

On ping, we get the following results



The screenshot shows a Cisco Packet Tracer PC Command Prompt window for PC0. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, showing a Command Prompt window. The Command Prompt displays the following output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>tracert 192.168.1.2

Tracing route to 192.168.1.2 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    192.168.1.2

Trace complete.

C:\>
```

At the bottom of the window, there is a checkbox labeled "Top" which is currently unchecked.

4 packets with 32 bytes of data each are sent and received ensuring that the connection is proper and our peer-to-peer connection is complete.

