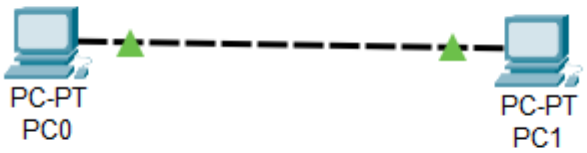
Practical – 1

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 tracert 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

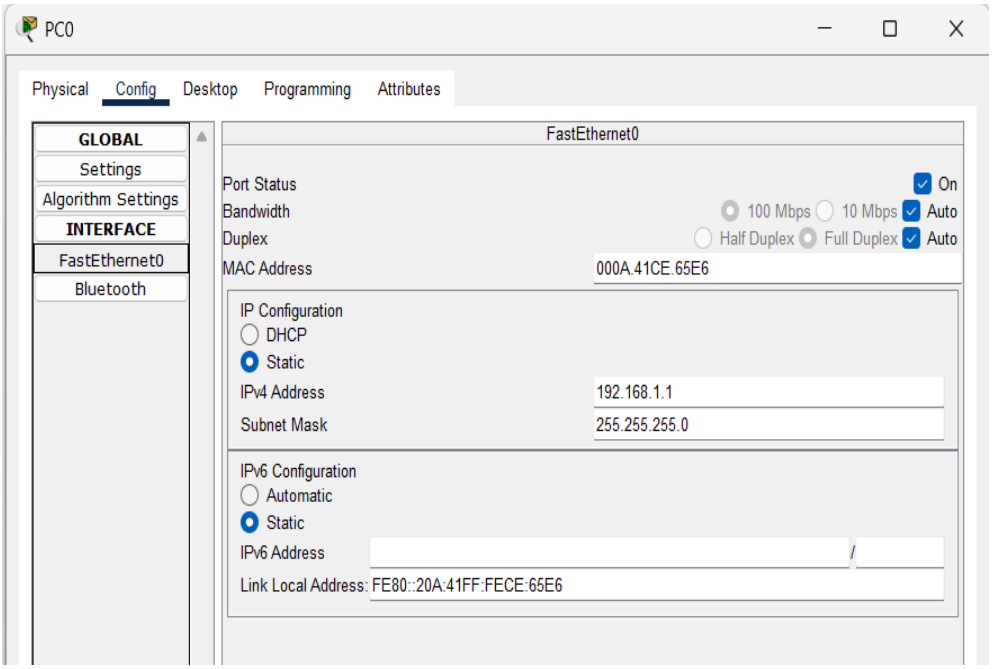


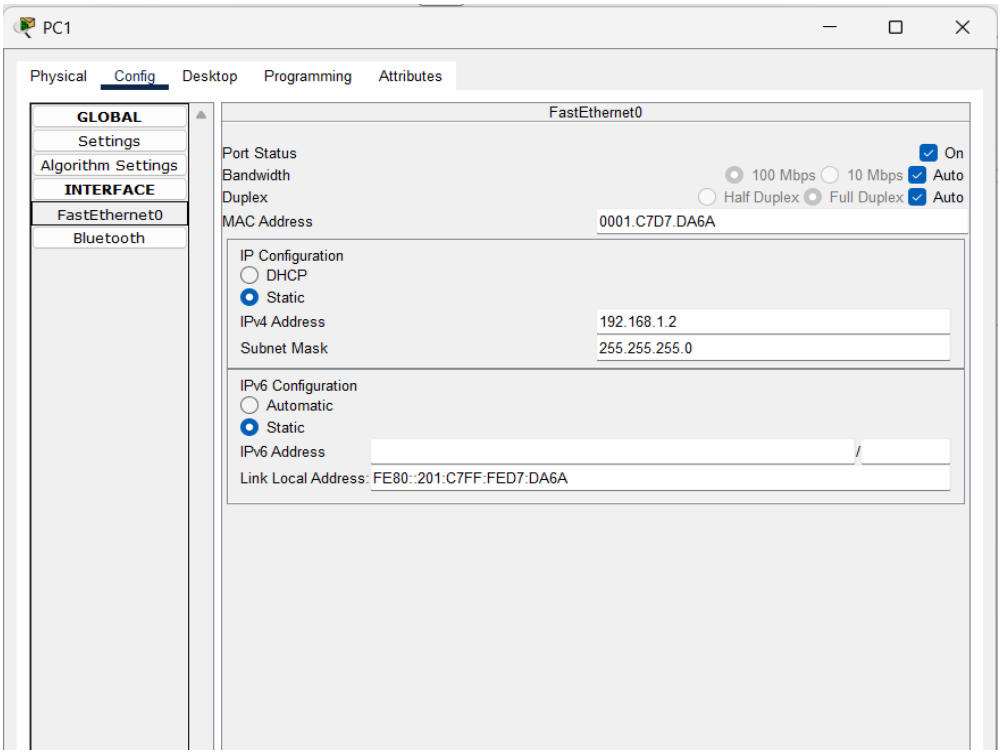
PC IPv4 Addresses :-

PC0 - 192.168.1.1

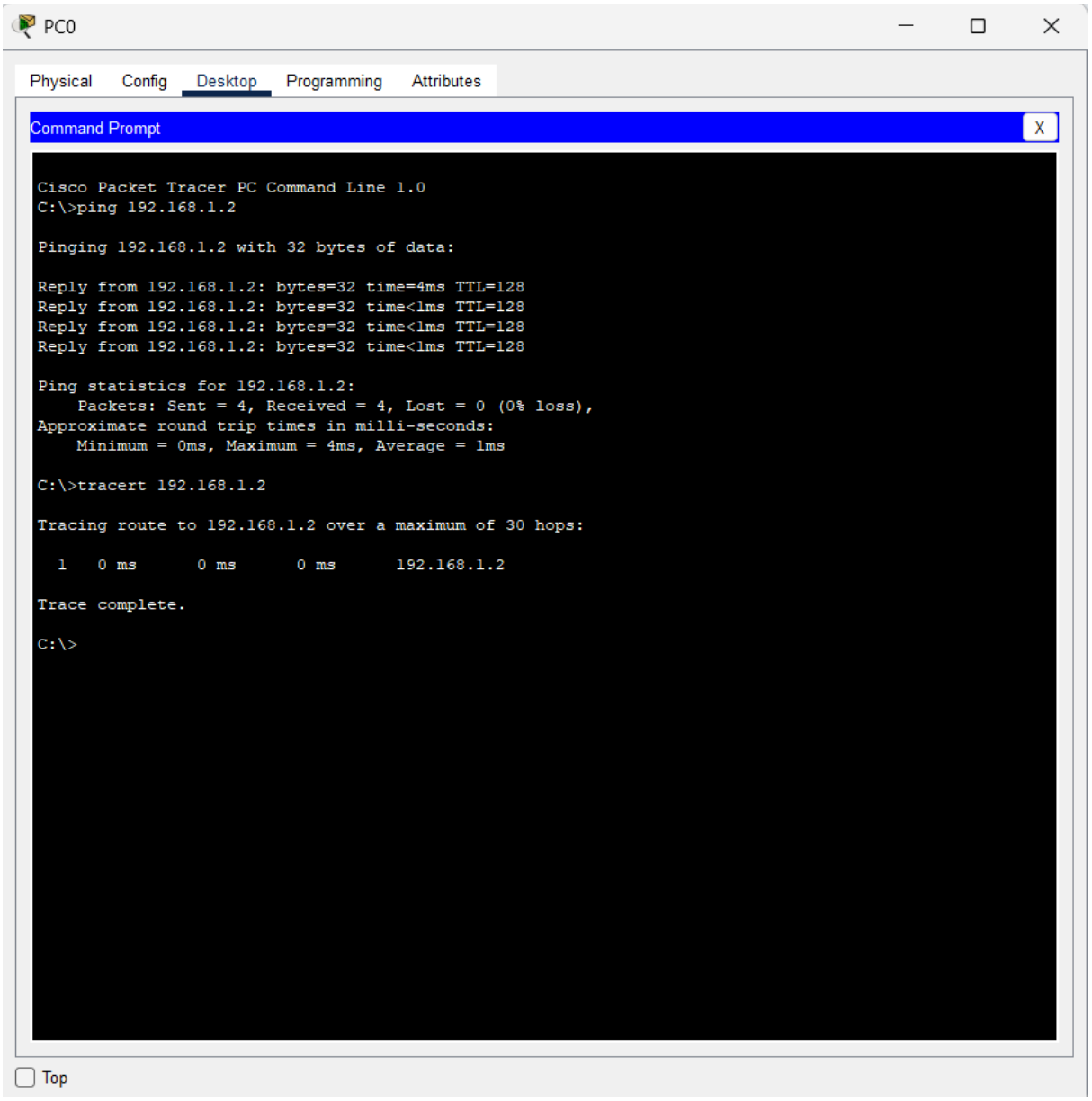
PC1 - 192.168.1.2

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 pinging, we get the following results



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.