Question 1

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**Problem Statement :-**

To construct a network of 10 users & show connection between user 1 and user 5.

**Objective :-**

To understand how to connect PCs using peer to peer connection.

**Description :-** A router is a networking device that forwards data packets b/w computer network

Step 1 :- Drop 10 PC's
Step 2 :- Drop 1 switch
Step 3 :- Connect PC & switch using Fast Ethernet
Step 4 :- Do IP configuration of all PC's
Step 5 :- Ping PC5 from PC1.

SNAPSHOT

## PC5

**Physical** · **Config** · **Desktop** · **Programming** · **Attributes**

### IP Configuration [X]

Interface: FastEthernet0

#### IP Configuration

○ DHCP   ● Static

| | |
|---|---|
| IP Address | 192.168.10.6 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | 0.0.0.0 |
| DNS Server | 0.0.0.0 |

#### IPv6 Configuration

○ DHCP   ○ Auto Config   ● Static

| | |
|---|---|
| IPv6 Address | / |
| Link Local Address | FE80::201:42FF:FE8E:70A0 |
| IPv6 Gateway | |
| IPv6 DNS Server | |

#### 802.1X

☐ Use 802.1X Security

Authentication: MD5

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PC1

Physical    Config    Desktop    Programming    Attributes

Command Prompt                                                              X

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.6

Pinging 192.168.10.6 with 32 bytes of data:

Reply from 192.168.10.6: bytes=32 time=1ms TTL=128
Reply from 192.168.10.6: bytes=32 time<1ms TTL=128
Reply from 192.168.10.6: bytes=32 time<1ms TTL=128
Reply from 192.168.10.6: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

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