

2. Create a simple peer-to-peer network:

c) Open the command prompt on one PC and ping the other. Observe and explain the result.

```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.100.2

Pinging 192.168.100.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

When the PCs were connected using a straight-through cable, a timeout error occurred, and the packets could not be transferred between the PCs. Since straight through wires are used to connect different devices its not compatible for applications having same devices.

d) Explain what is required to successfully connect the two PCs directly.

To successfully connect both PCs, use a compatible wire and ensure they have the same subnetwork mask. Therefore, a crossover wire was used in this instance to connect the pcs successfully together.

```
C:\>ping 192.168.100.2

Pinging 192.168.100.2 with 32 bytes of data:

Reply from 192.168.100.2: bytes=32 time=4ms TTL=128
Reply from 192.168.100.2: bytes=32 time=2ms TTL=128
Reply from 192.168.100.2: bytes=32 time=2ms TTL=128
Reply from 192.168.100.2: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 4ms, Average = 2ms
```

3.

d)

