# COMPUTER NETWORKS

## Modul 2



Created by:

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**L200184172**

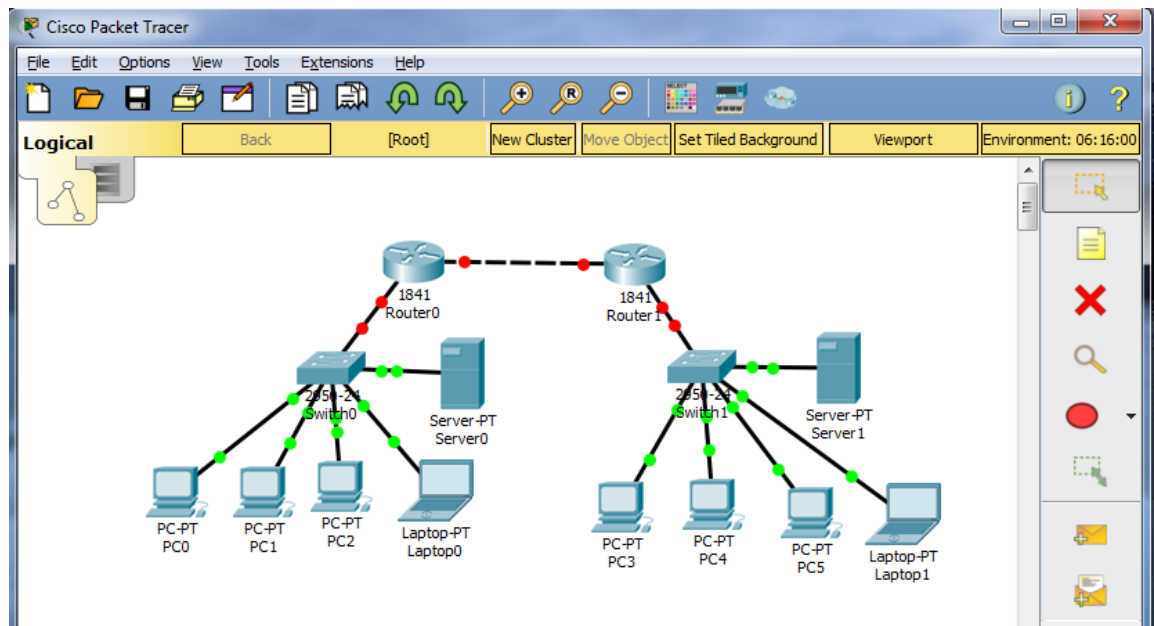**INFORMATION TECHNOLOGY**

**FACULTY OF COMMUNICATION AND INFORMATICS**

**MUHAMMADIYAH UNIVERSITY OF SURAKARTA**

**2020**

**Asisten Lab : Salsa Sasmita**
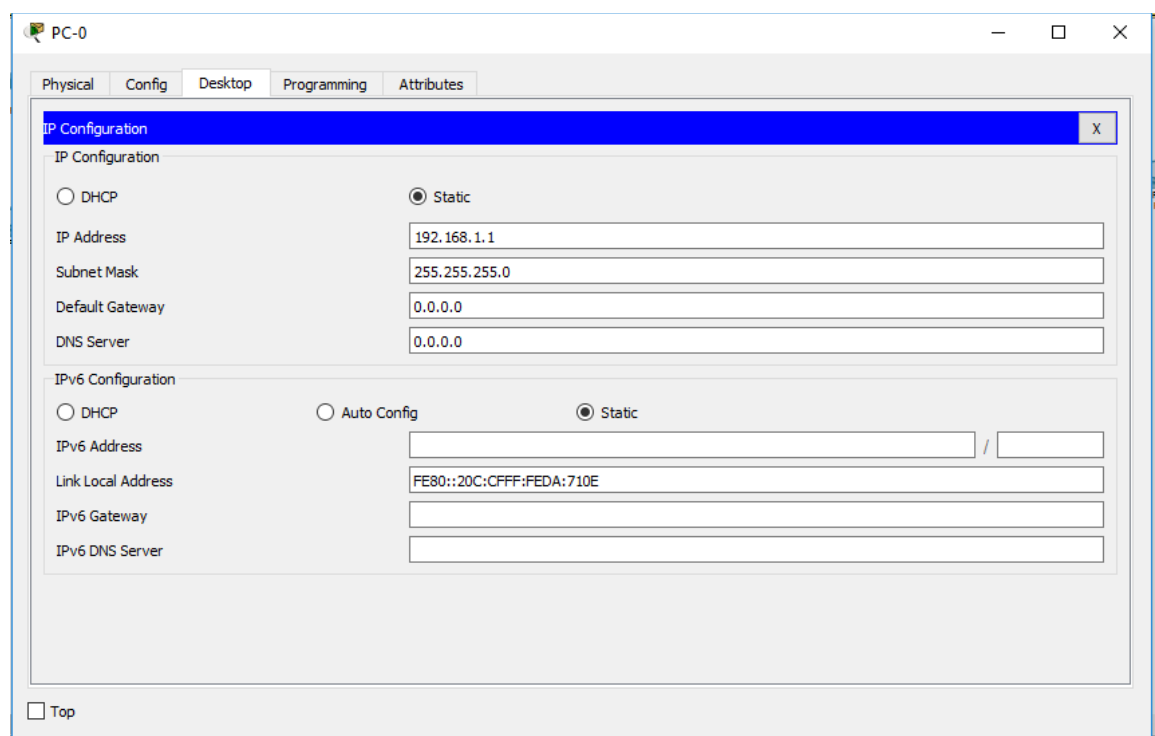
➢ *Activity 1*



**Explanation :**

- The red indicator light indicates that the cable is not connected or an error has occurred.
- The orange indicator light indicates that an installation process or recognition device is being connected.
- The green indicator light indicates that the cable has successfully connected devices with each other.
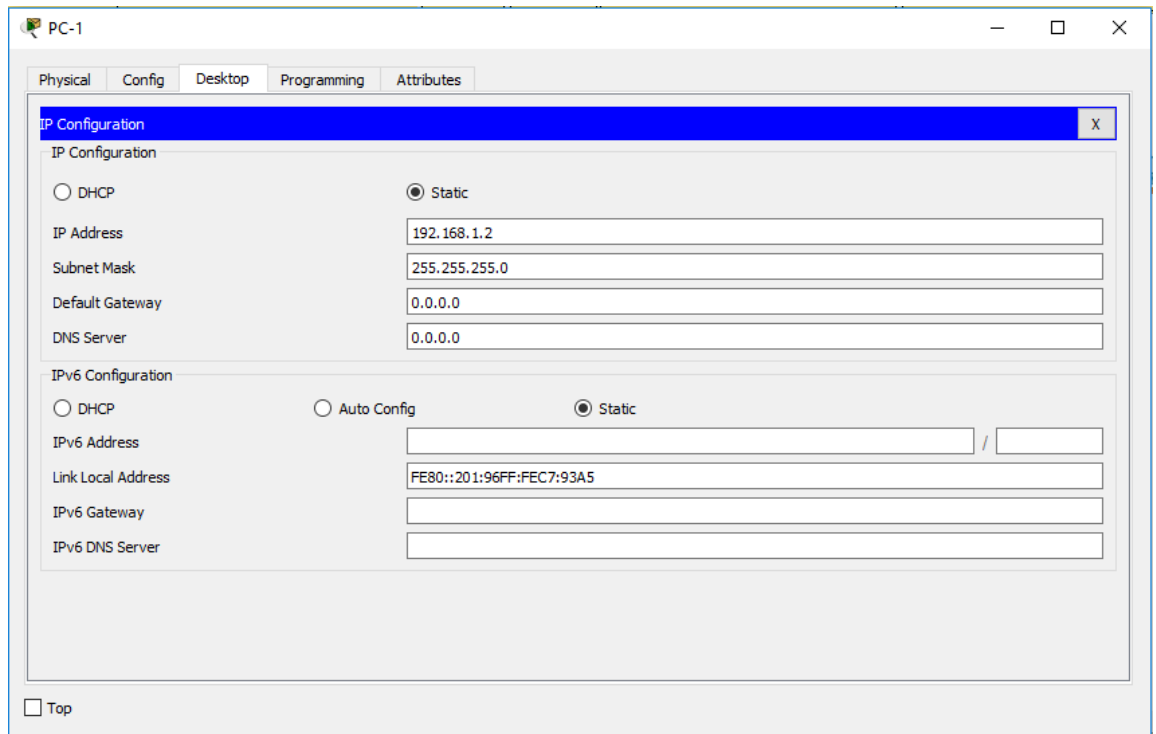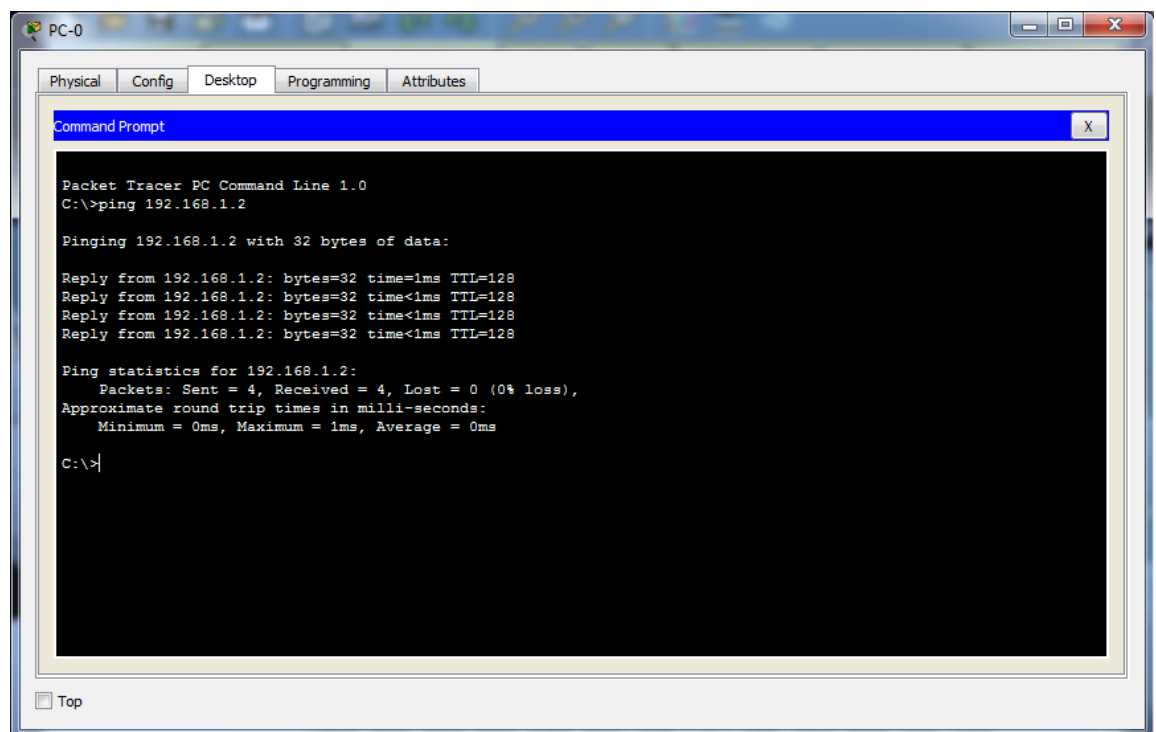
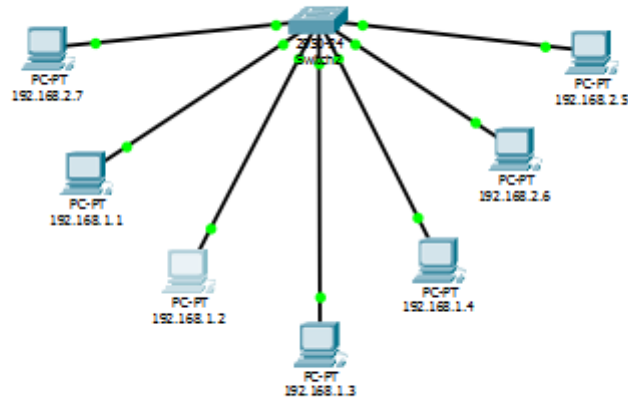➢ *Activity 2*

- **Circuit Design**
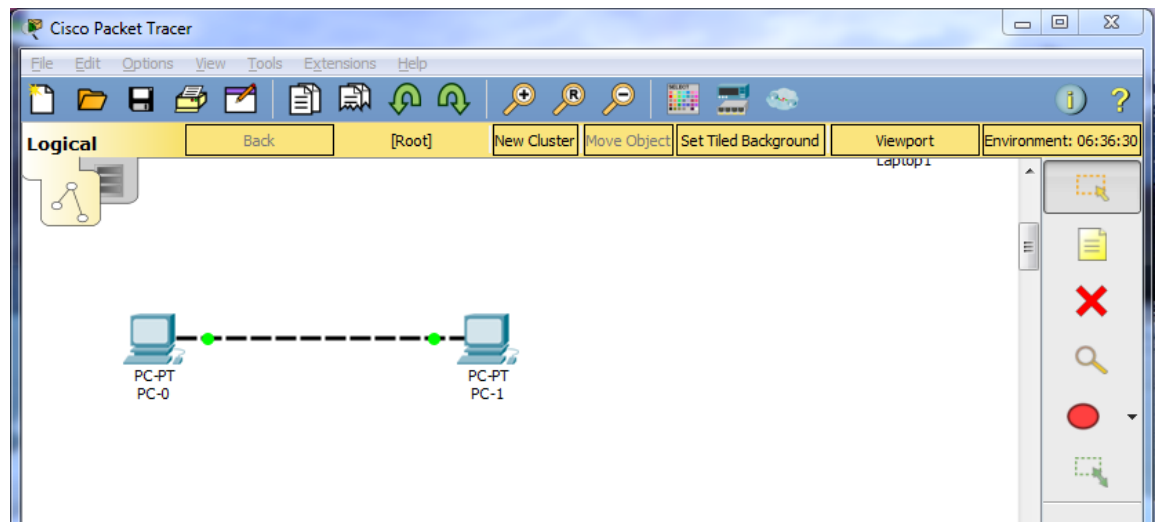


- **IP Configuration**

- **Checking connection**

> ## *Activity 3*

- **Circuit design**



- **Give IP Adress (success)**

- **Give IP Adress (not success)**
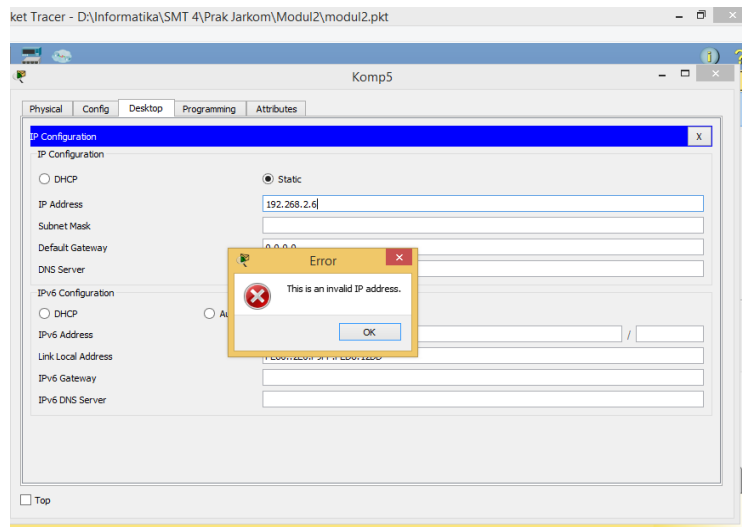


**Explanation :**

The screenshot above shows an error because the ipconfig is too large, which is 268, while the maximum ip is 255.

a) **PC 1 to PC 2**
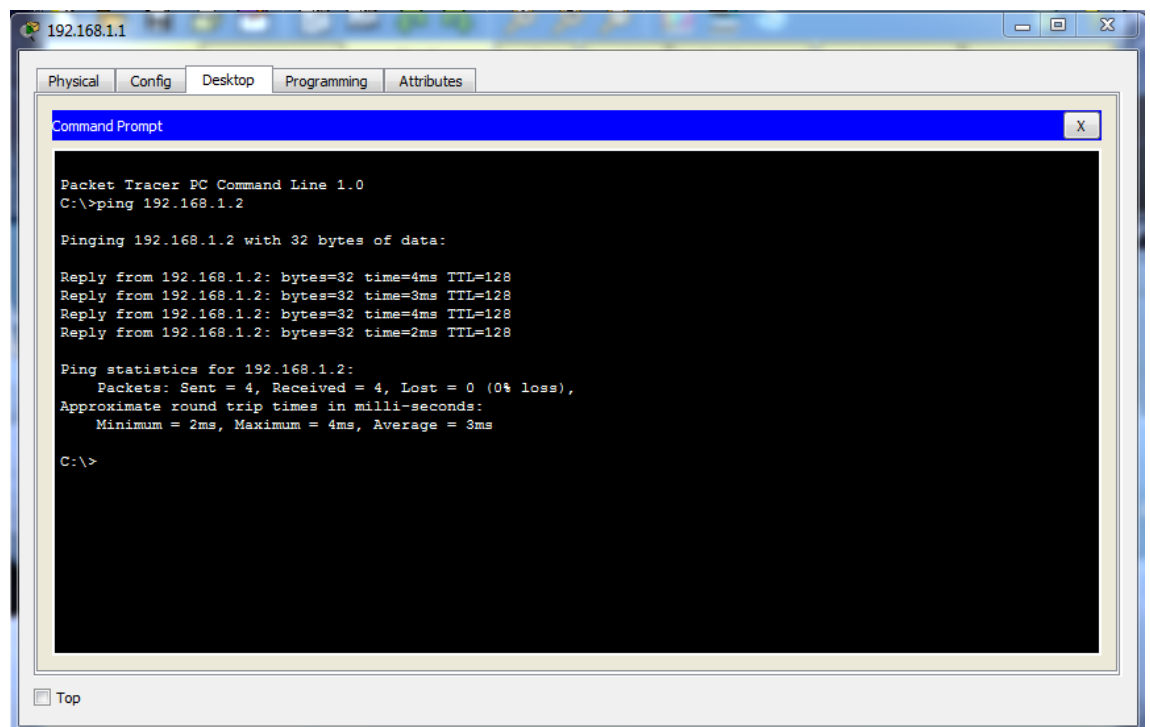


**Explanation :**

PC1 to PC2 can be connected because they are on one network.

**b) PC 3 to PC 5**
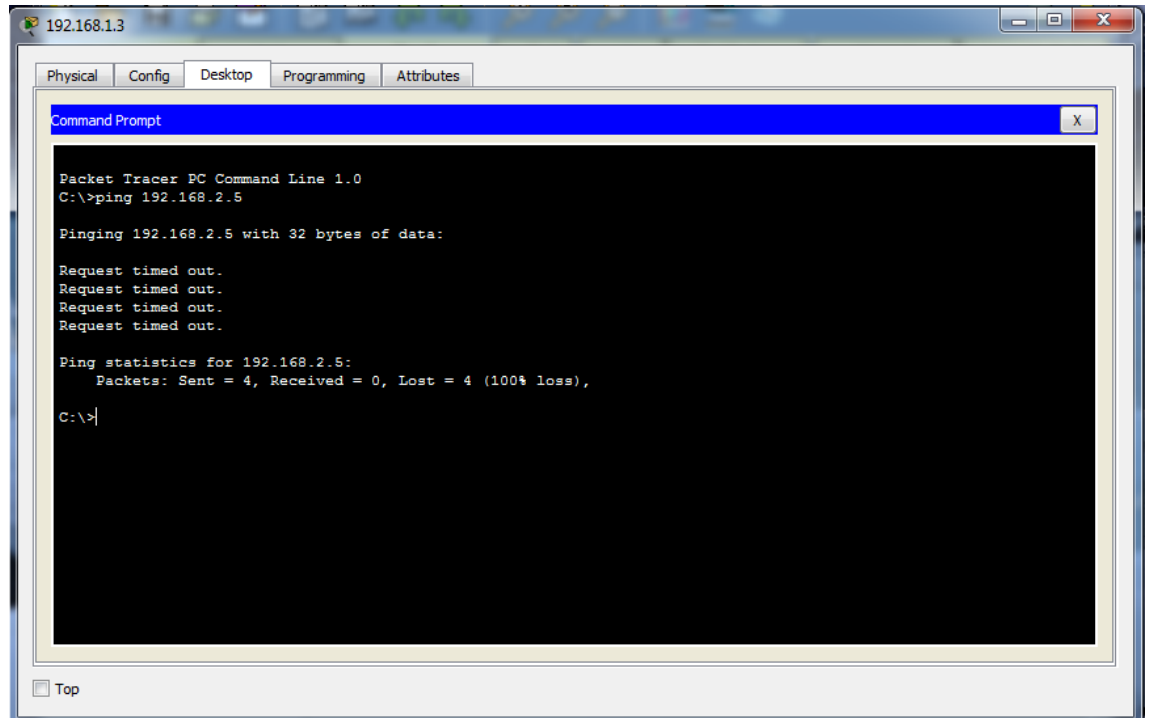


**Explanation :**

    PC1 to PC2 can be connected because they are on one network.

➢ *Activity 4*

- **Circuit design**



- **Ping between the two PCs**

> **ASSIGNMENT**

- **Circuit design**



- **Check the connection by ping from the IP computer 192.168.10.10 to another computer with a different connection switch**

Try to ping 192.168.10.10 to 192.168.10.20

**Try to ping** 192.168.10.20 to 192.168.10.30

```
192.168.10.30                                                    —  □  ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt                                                        X

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.20

Pinging 192.168.10.20 with 32 bytes of data:

Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>

☐ Top
```

**Try to ping** 192.168.10.30 to 192.168.10.40

```
192.168.10.40                                                    —  □  ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt                                                        X

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.30

Pinging 192.168.10.30 with 32 bytes of data:

Reply from 192.168.10.30: bytes=32 time=1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>

☐ Top
```
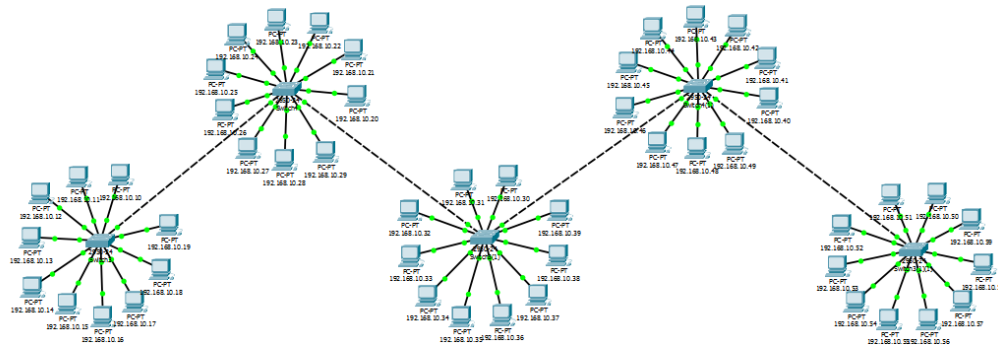
**Try to ping** 192.168.10.40 0 to 192.168.10.50

192.168.10.50 — □ ✕

| Physical | Config | Desktop | Programming | Attributes |

Command Prompt X

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.40

Pinging 192.168.10.40 with 32 bytes of data:

Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.10.40:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```
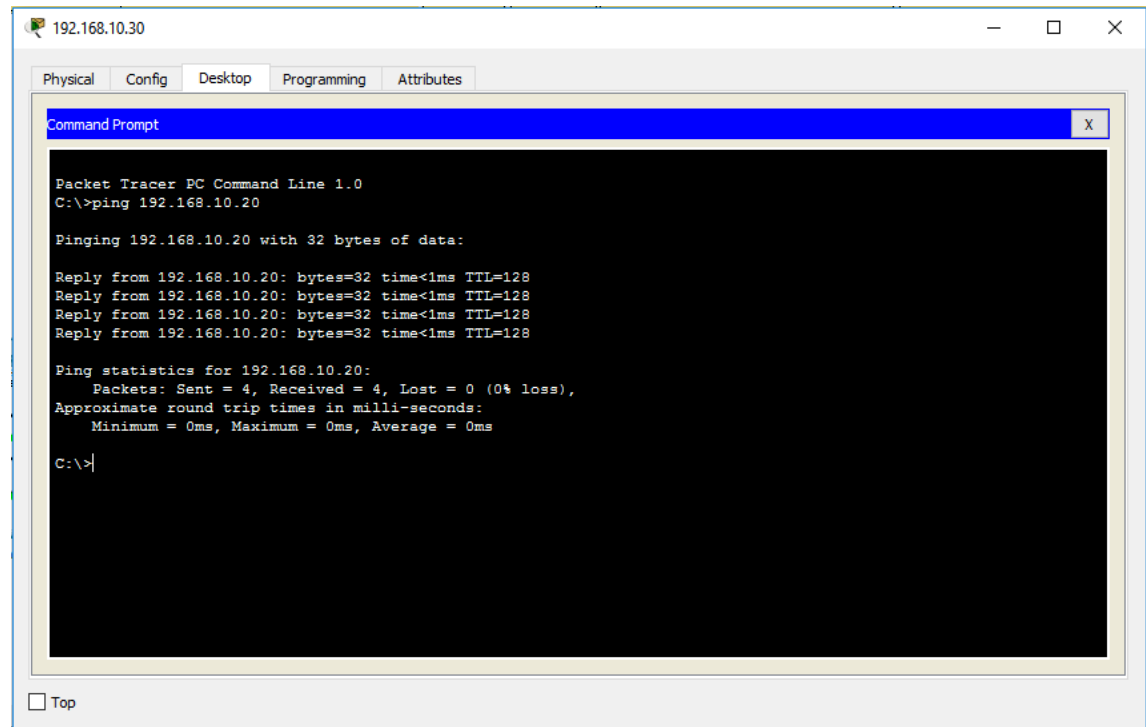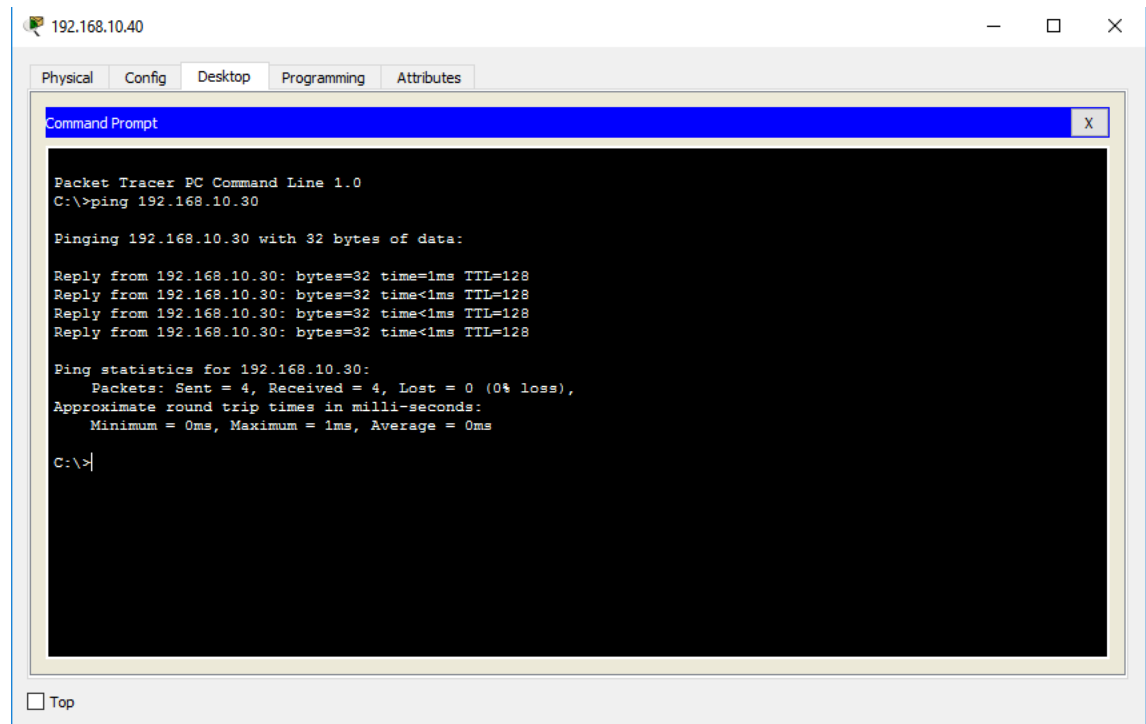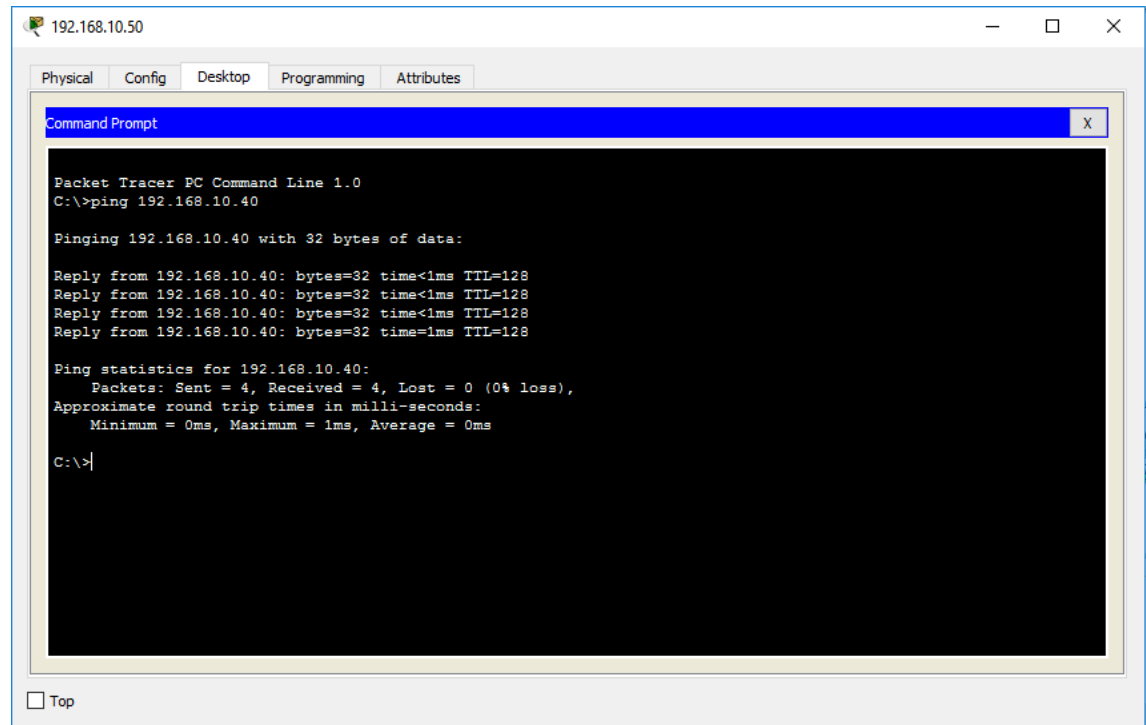
☐ Top

- **Check the connection by ping from the IP computer 192.168.10.10 to another computer with a same connection switch**

**Try to ping** 192.168.10.10  to 192.168.10.11