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Experiment 1: Introduction to the laboratory and the tool used Cisco packet tracer

step1: Drag and drop two pc's from end devices.



step2 : connect the pc's with copper cross over cable.

Step3: Assign ip address for both devices in config tab.
for pc1:10.10.10.1
for pc2:10.10.10.2

GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth

FastEthernet0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="checkbox"/> 100 Mbps <input type="checkbox"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="checkbox"/> Half Duplex <input checked="" type="checkbox"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0030.A312.B9A1
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IPv4 Address	10.10.10.2
Subnet Mask	255.0.0.0
IPv6 Configuration	
<input type="radio"/> Automatic	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::230:A3FF:FE12:B9A1

pc2

Physical	Config	Desktop	Programming	Attributes
FastEthernet0				
GLOBAL				
Settings				
Algorithm Settings				
INTERFACE				
FastEthernet0				
Bluetooth				

FastEthernet0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="checkbox"/> 100 Mbps <input type="checkbox"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="checkbox"/> Half Duplex <input checked="" type="checkbox"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0090.2B68.21BA
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IPv4 Address	10.10.10.1
Subnet Mask	255.0.0.0
IPv6 Configuration	
<input type="radio"/> Automatic	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::290:2BFF:FE68:21BA

pc1

step4: verify the connection by using ping from one pc to other pc.

Open command prompt on pc1 and try to connect pc2 by using ping command. Ping 10.10.10.2

```
C:\>ping 10.10.10.2

Pinging 10.10.10.2 with 32 bytes of data:

Reply from 10.10.10.2: bytes=32 time=10ms TTL=128
Reply from 10.10.10.2: bytes=32 time<1ms TTL=128
Reply from 10.10.10.2: bytes=32 time<1ms TTL=128
Reply from 10.10.10.2: bytes=32 time<1ms TTL=128

Ping statistics for 10.10.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>|
```