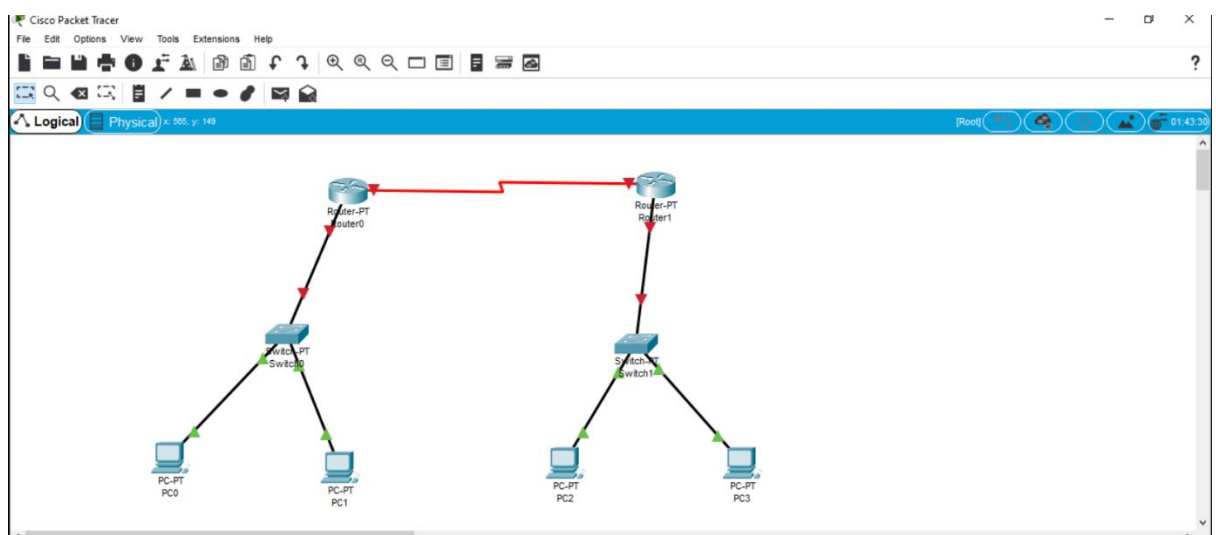
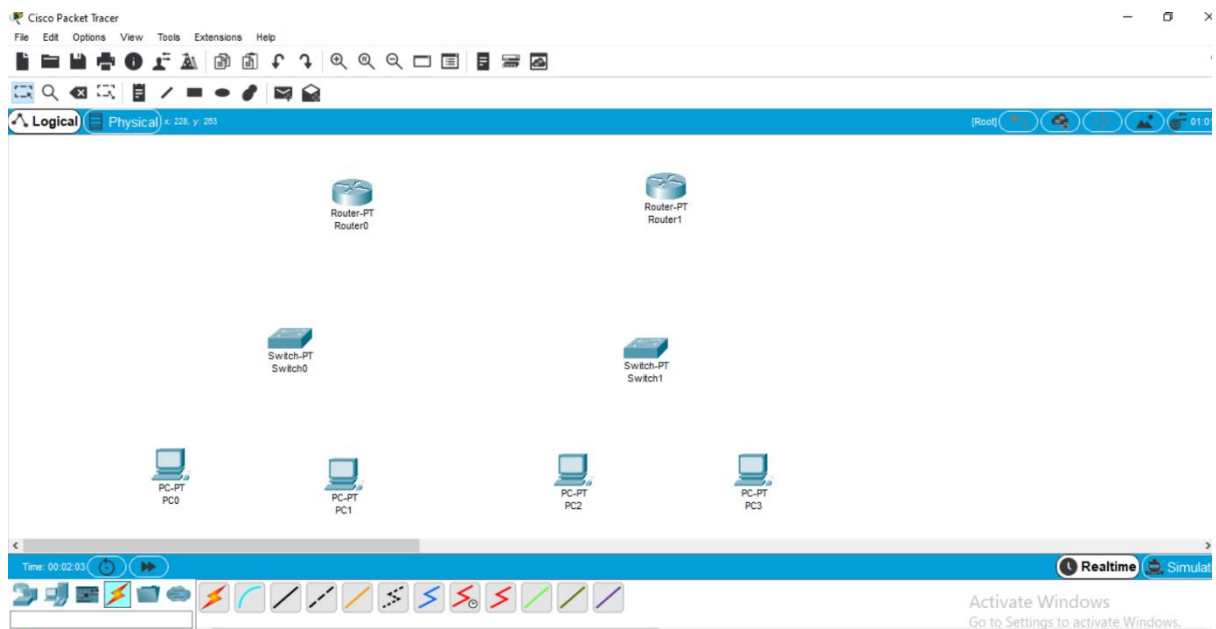


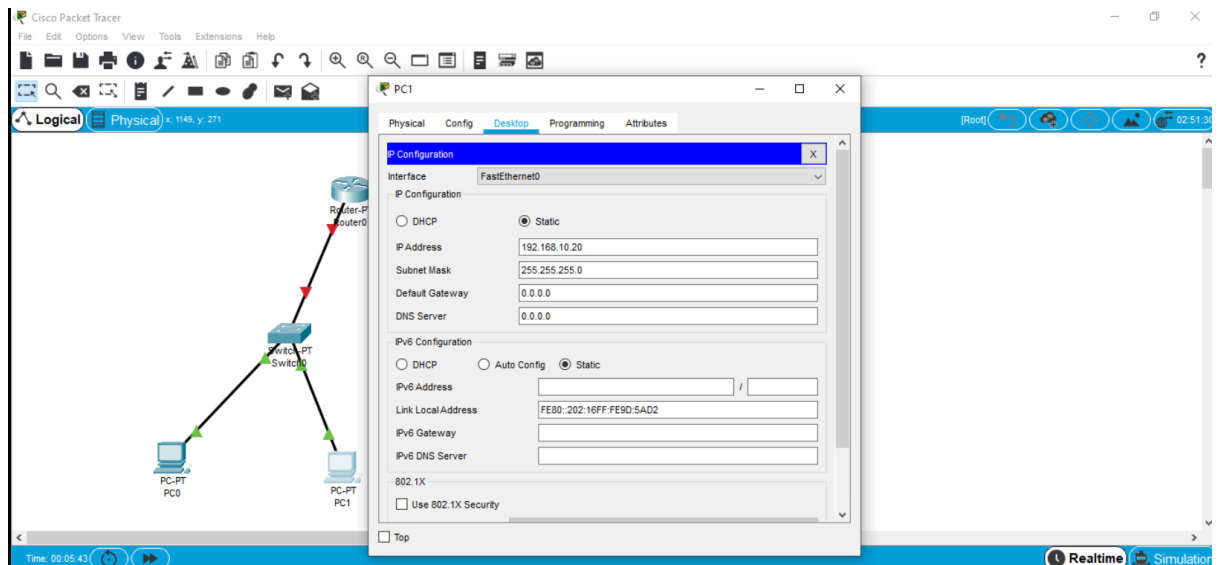
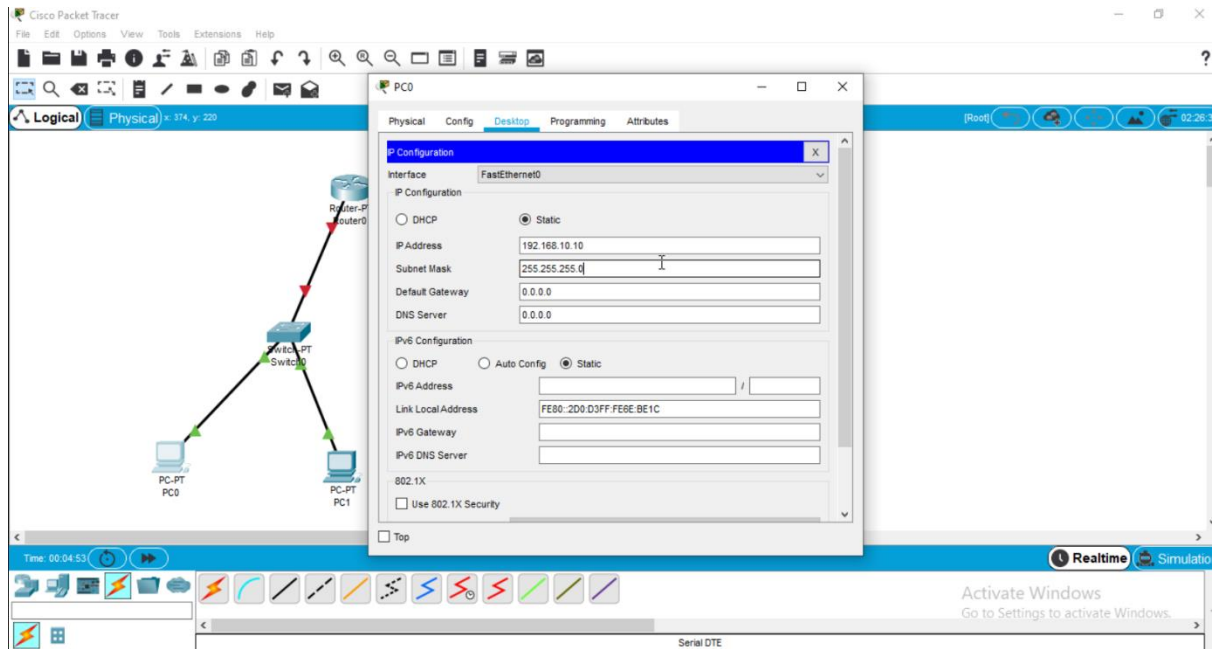
## CISCO PACKET TRACER LAB -1 :

In this lab I explain how we can ping **PC** of one network to **ROUTER** of another network.

Note :- I insert page as according to the process.

1. First I set the diagram in cisco packet tracer .
2. Then I give IP address to all the pc.
3. Then I convert red light sign to green light in between switch and router for message passing.
4. Then I also convert red light to green in between router for message passing .
5. The above 3 and 4 point done by the help of CLI command.
6. Then I ping pc0 to router1.





PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.10.10

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20D:BDFF:FEDA:D252

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.10.20

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::200:CFF:FE0E:6EA0

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.20.10

Subnet Mask 255.255.255.0

Default Gateway 192.168.20.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::202:17FF:FE04:41BA

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.20.20

Subnet Mask 255.255.255.0

Default Gateway 192.168.20.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:D3FF:FEC6:B513

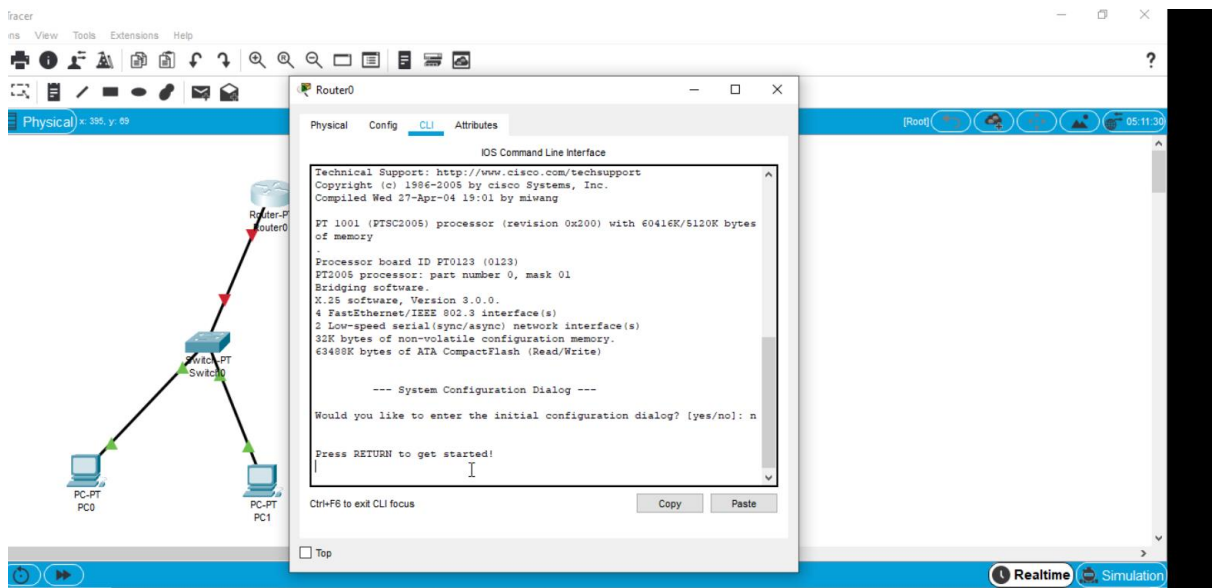
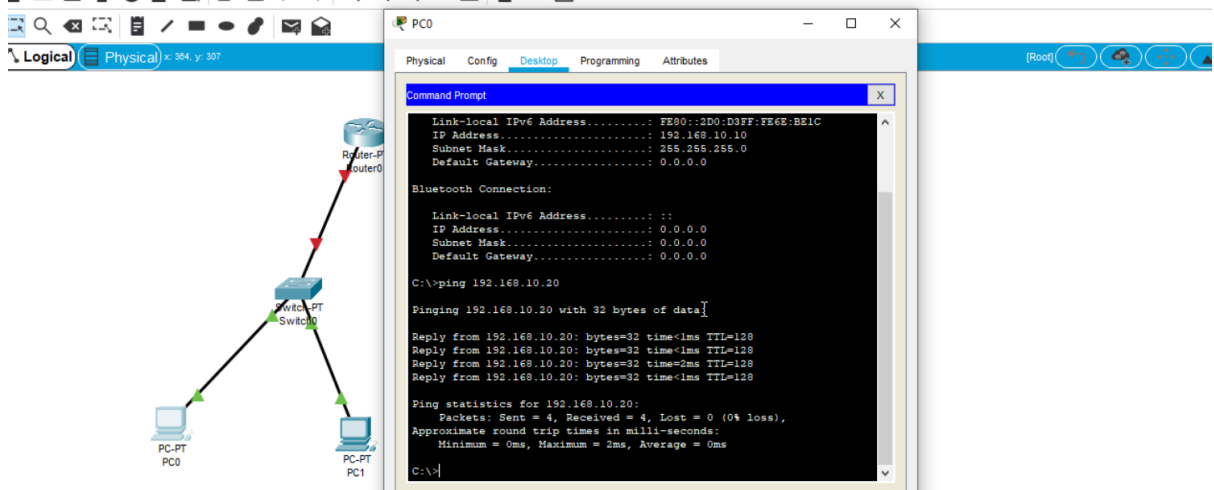
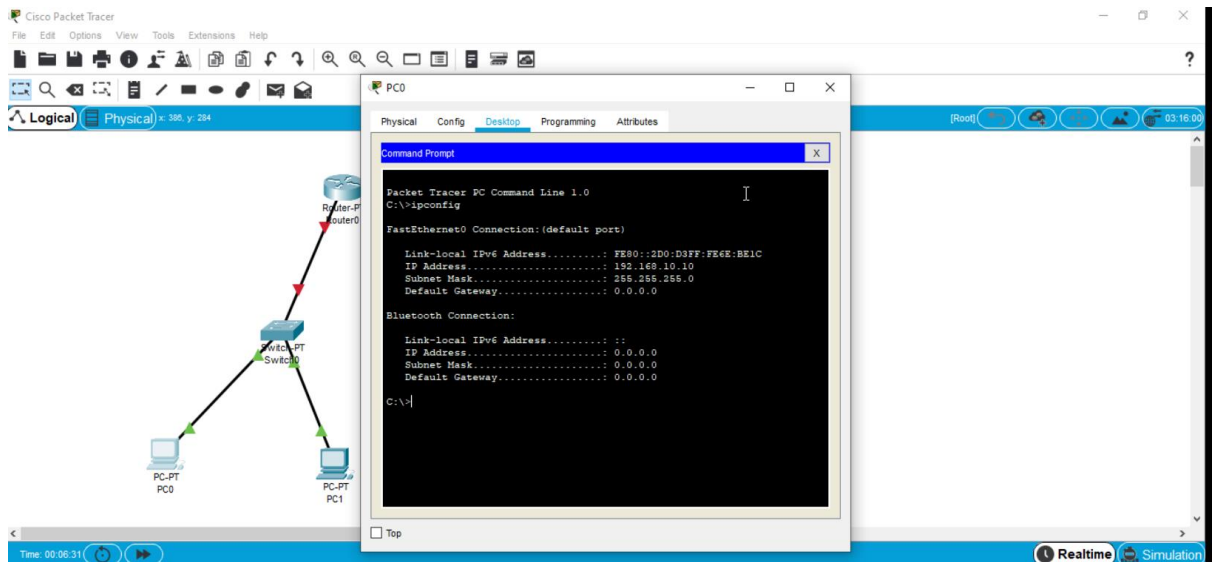
IPv6 Gateway

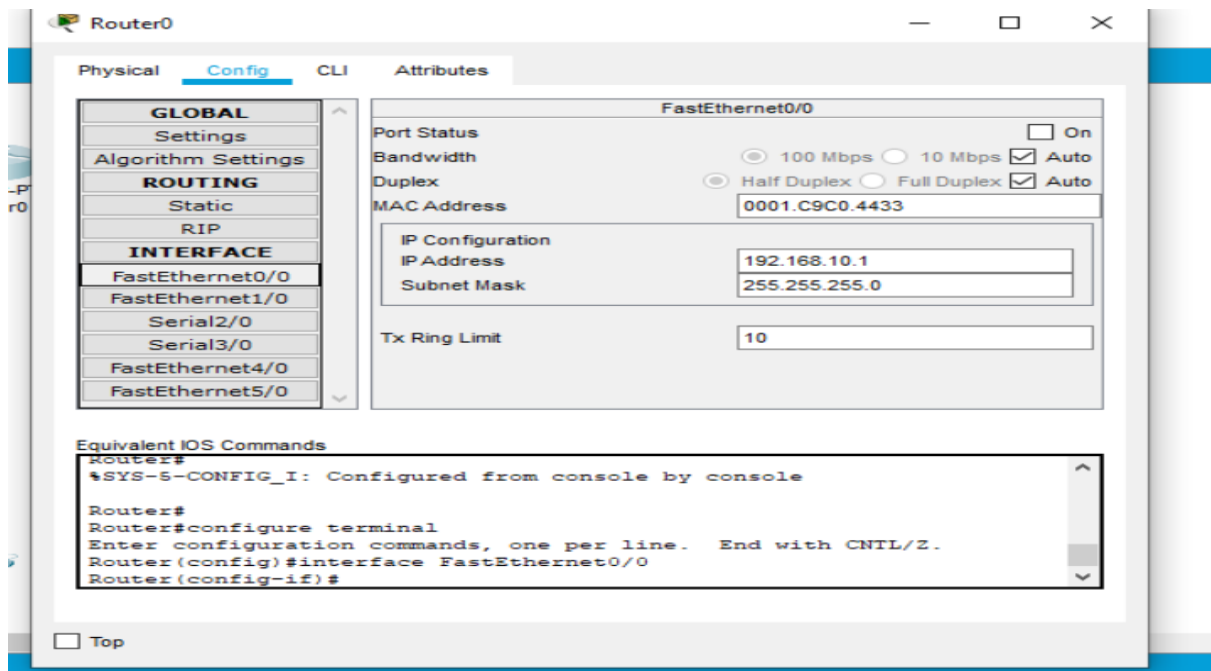
IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top





```

Router>
Router>enable
Router#
Router#conf
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#
Router(config)#inter
Router(config)#interface fast
Router(config)#interface fastEthernet 0/0
Router(config-if)#
Router(config-if)#ip add
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#des
Router(config-if)#description rout
Router(config-if)#description router0 lrange
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

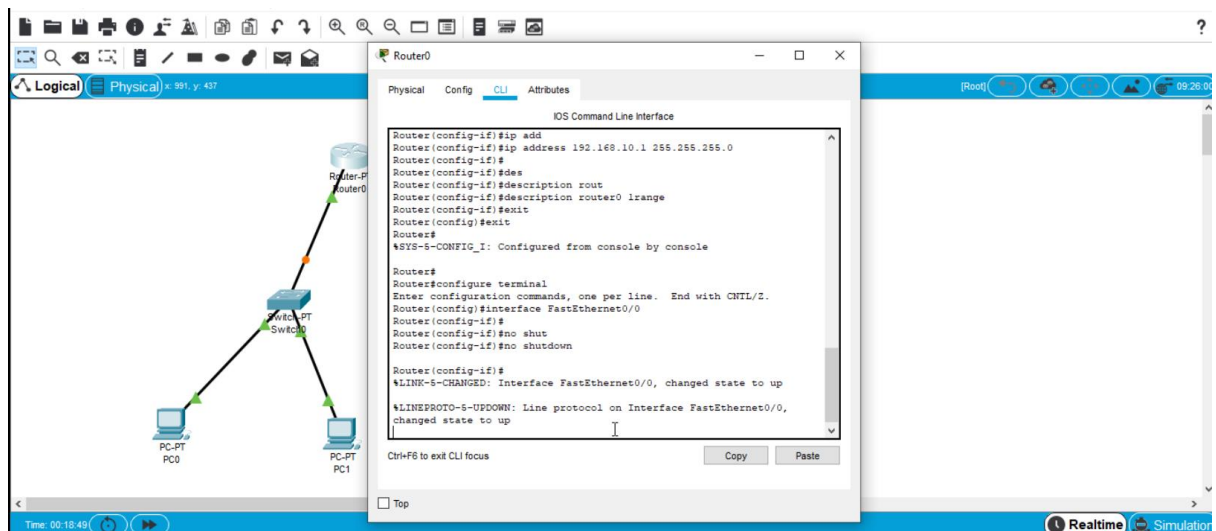
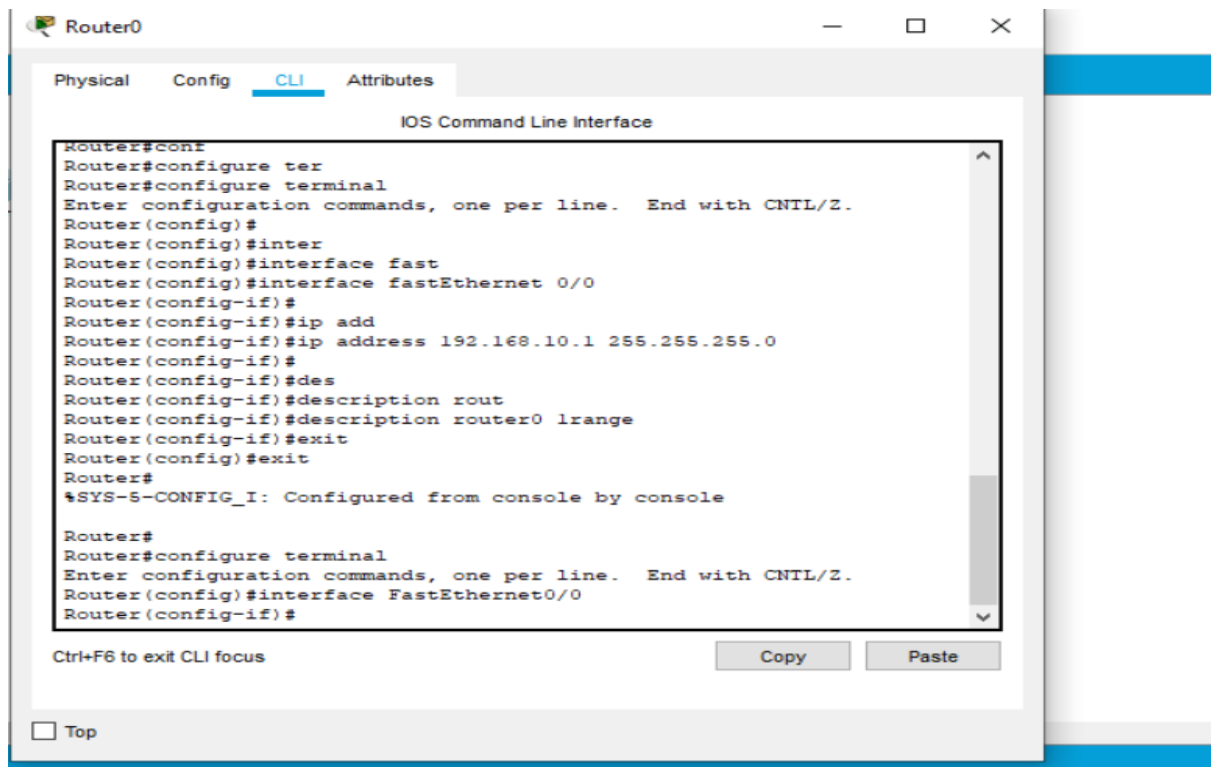
Router#
  
```

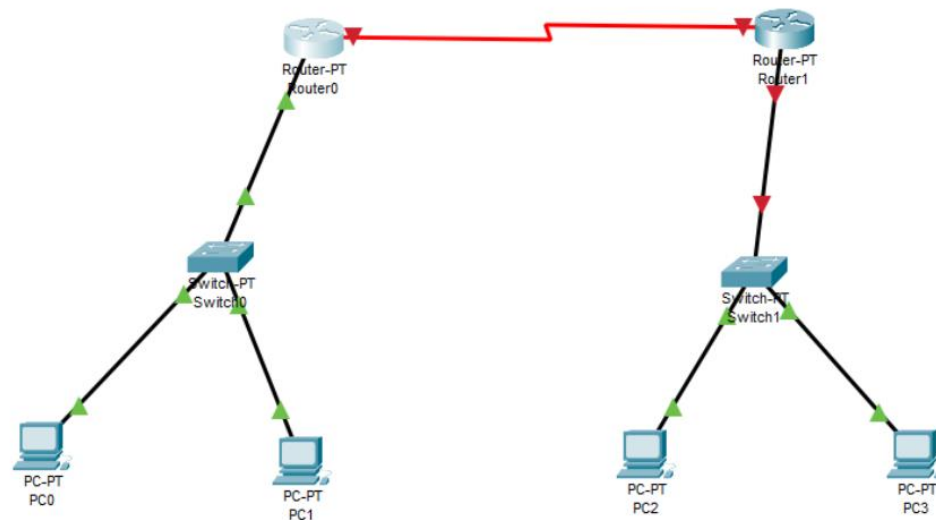
Ctrl+F6 to exit CLI focus

Copy

Paste

Top





Router0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#
Router(config)#inte
Router(config)#interface se
Router(config)#interface serial 2/0
Router(config-if)#
Router(config-if)#
Router(config-if)#ip add
Router(config-if)#ip address 192.168.30.2 255.255.255.0
Router(config-if)#
Router(config-if)#clock rate 64000
Router(config-if)#no shu
Router(config-if)#no shutdown

%LINK-S-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
%LINK-S-CHANGED: Interface Serial2/0, changed state to up

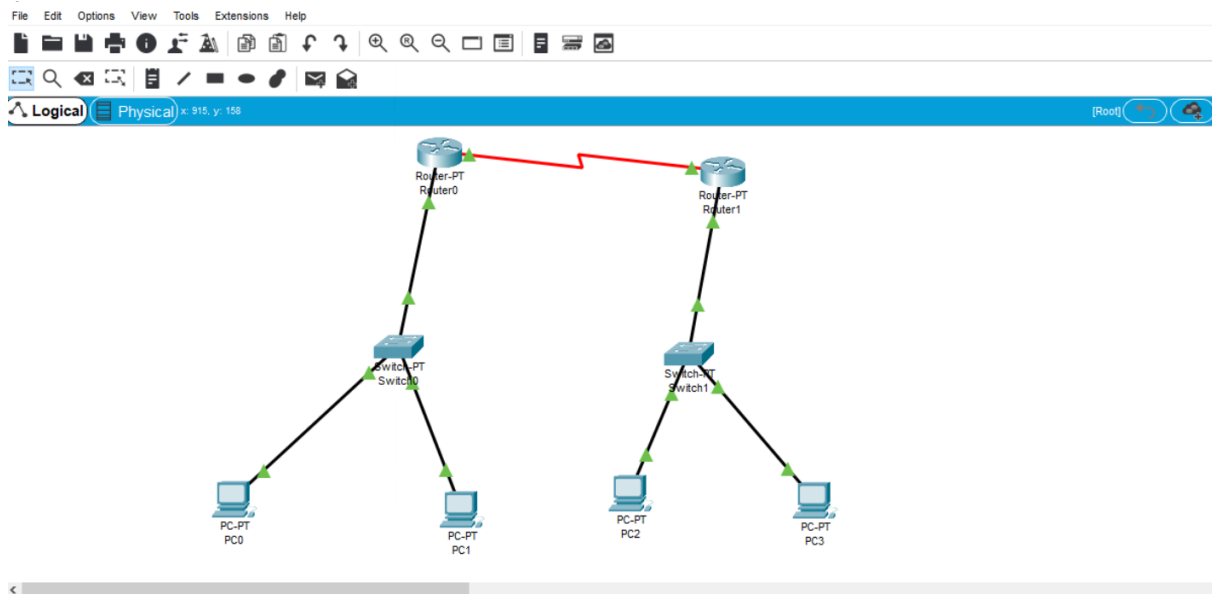
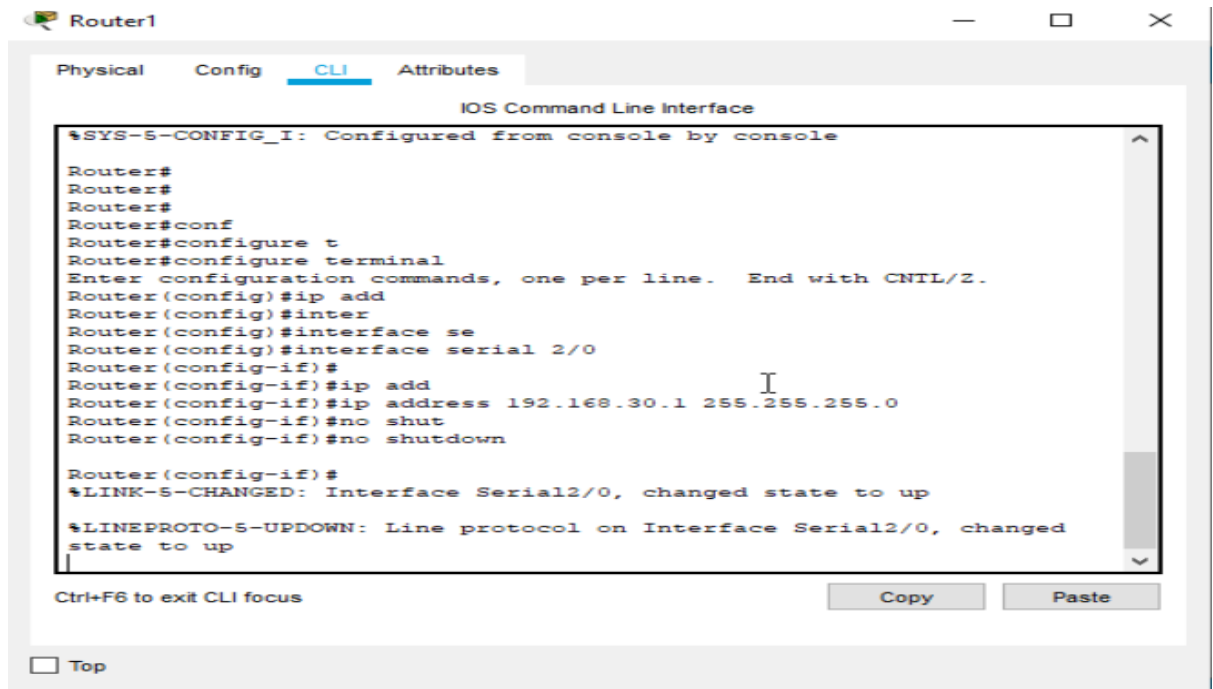
%LINEPROTO-S-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up
```

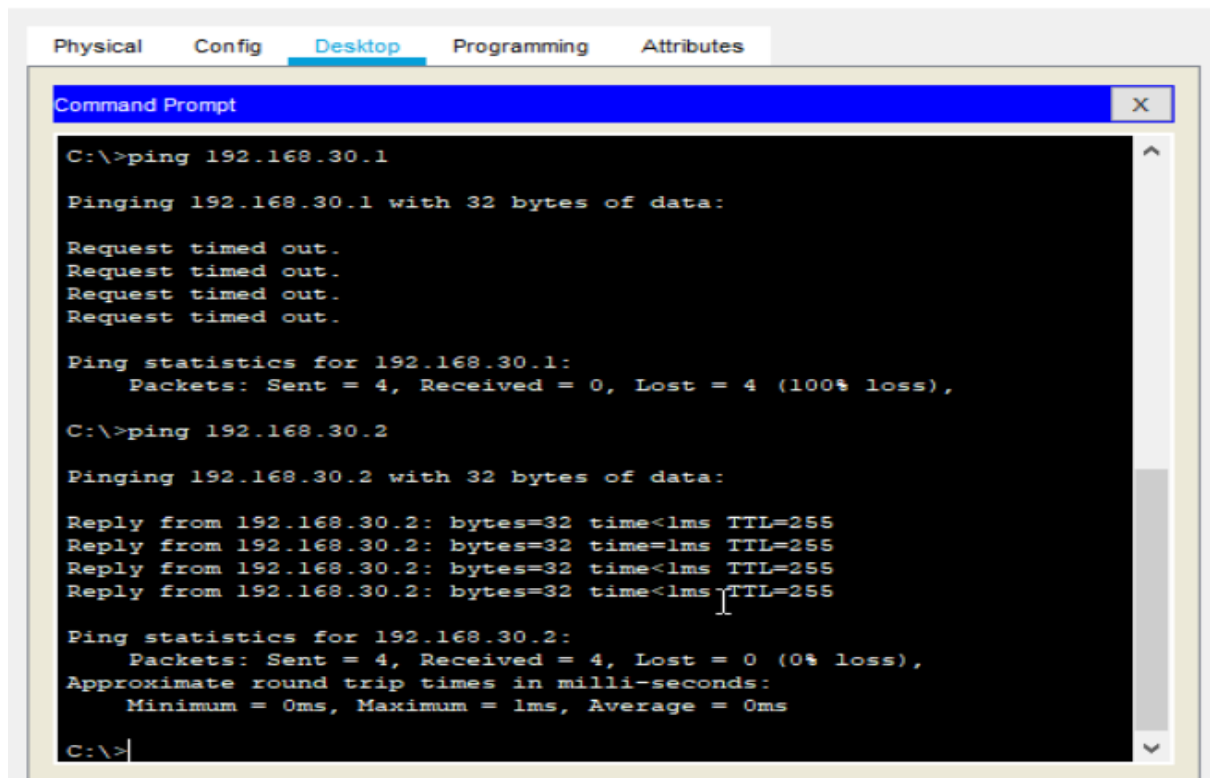
Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top







The screenshot shows a window titled 'PC1' with tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The Command Prompt shows the execution of two ping commands. The first command, 'ping 192.168.30.1', results in four 'Request timed out.' messages and a summary showing 100% loss. The second command, 'ping 192.168.30.2', results in four successful replies with a time of less than 1ms and a summary showing 0% loss.

```
C:\>ping 192.168.30.1

Pinging 192.168.30.1 with 32 bytes of data:

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

Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.30.2

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time<1ms TTL=255
Reply from 192.168.30.2: bytes=32 time=1ms TTL=255
Reply from 192.168.30.2: bytes=32 time<1ms TTL=255
Reply from 192.168.30.2: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.30.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

```
Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.30.2

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time<1ms TTL=255
Reply from 192.168.30.2: bytes=32 time=1ms TTL=255
Reply from 192.168.30.2: bytes=32 time<1ms TTL=255
Reply from 192.168.30.2: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.30.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Physical Config **Desktop** Programming Attributes

Command Prompt X

Packet Tracer PC Command Line 1.0

C:\&gt;ping 192.168.20.20

Pinging 192.168.20.20 with 32 bytes of data: I

Reply from 192.168.20.20: bytes=32 time=1ms TTL=128

Reply from 192.168.20.20: bytes=32 time=4ms TTL=128

Reply from 192.168.20.20: bytes=32 time&lt;1ms TTL=128

Reply from 192.168.20.20: bytes=32 time&lt;1ms TTL=128

Ping statistics for 192.168.20.20:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\&gt;ping 192.168.30.1

Pinging 192.168.30.1 with 32 bytes of data:

Reply from 192.168.30.1: bytes=32 time=2ms TTL=255

Reply from 192.168.30.1: bytes=32 time=2ms TTL=255

Reply from 192.168.30.1: bytes=32 time&lt;1ms TTL=255

Reply from 192.168.30.1: bytes=32 time&lt;1ms TTL=255

Ping statistics for 192.168.30.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

☐ Top