

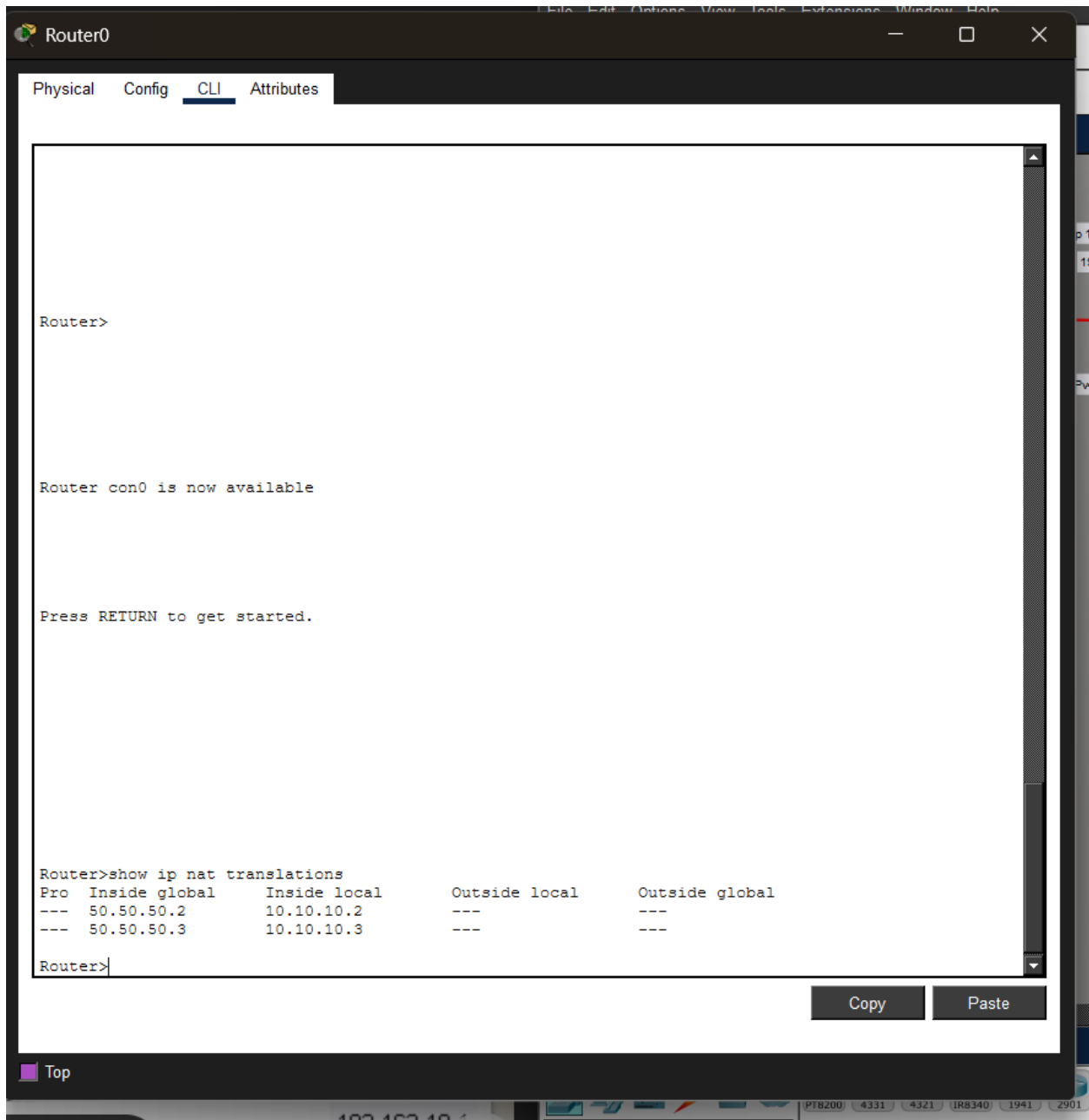
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**Sec:** I  
**Subject:** Network Security  
**Subject Code:** CS3403

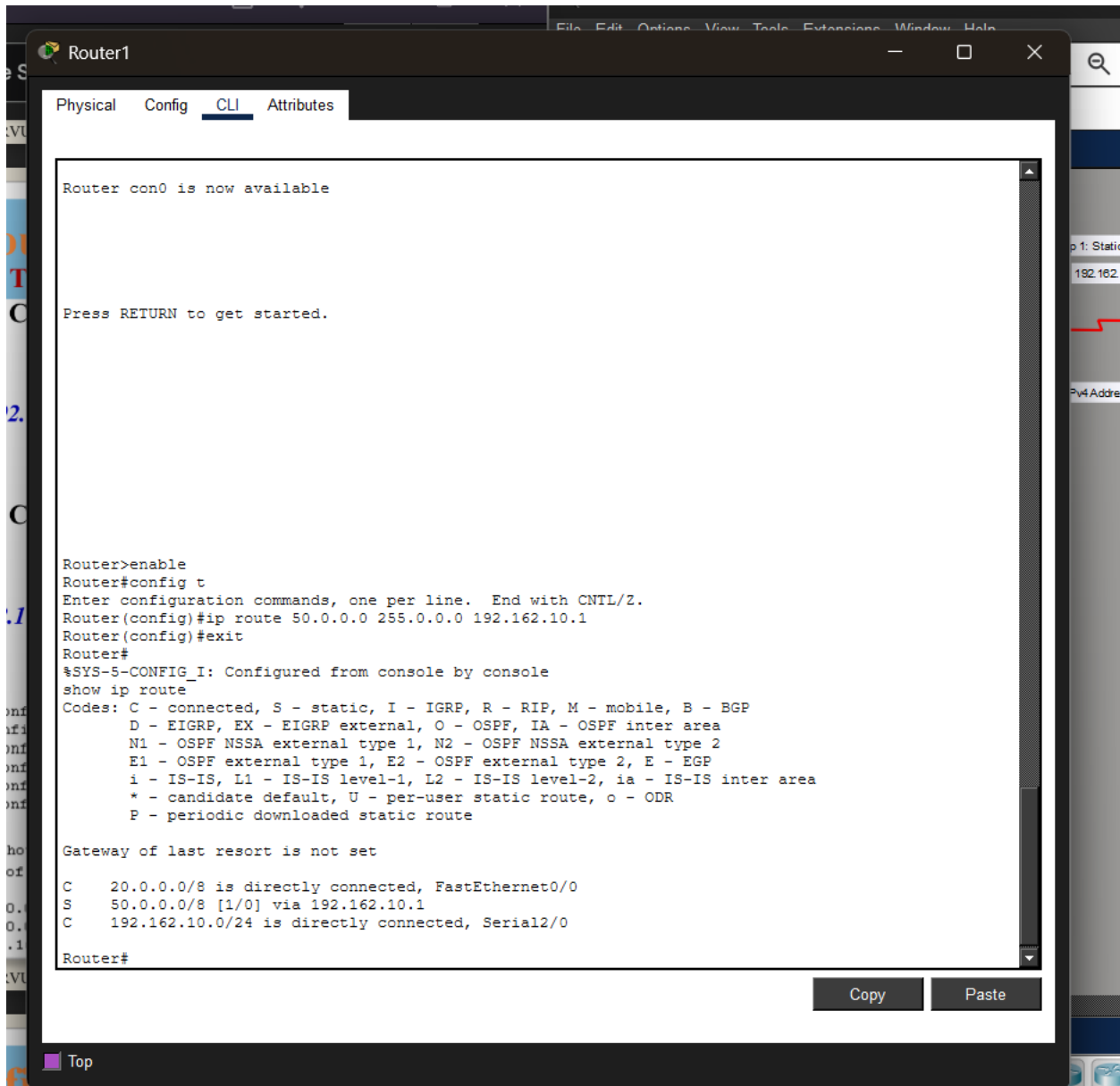
## Lab Experiment : 2

```
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
enable
Router# show ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
---  ---                ---                ---                ---
    50.50.50.3         10.10.10.3         ---                ---
```

```
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip nat inside source static 10.10.10.2 50.50.50.2
Router(config)#ip nat inside source static 10.10.10.3 50.50.50.3
Router(config)#show ip nat translations
^
% Invalid input detected at '^' marker.

Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
---  ---                ---                ---                ---
    50.50.50.2         10.10.10.2         ---                ---
    50.50.50.3         10.10.10.3         ---                ---
Router#
```





```
Router1
Physical Config CLI Attributes

Router con0 is now available

Press RETURN to get started.

Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 50.0.0.0 255.0.0.0 192.162.10.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    20.0.0.0/8 is directly connected, FastEthernet0/0
S    50.0.0.0/8 [1/0] via 192.162.10.1
C    192.162.10.0/24 is directly connected, Serial2/0

Router#
```



```

Physical  Config  CLI  Attributes

Router>show ip nat translations
Pro  Inside global    Inside local    Outside local    Outside global
---  50.50.50.2         10.10.10.2      ---             ---
---  50.50.50.3         10.10.10.3      ---             ---

Router>config t
^
% Invalid input detected at '^' marker.

Router>enable
Router# config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#ip route 60.0.0.0 255.0.0.0 192.162.10.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
S    60.0.0.0/8 [1/0] via 192.162.10.2
C    192.162.10.0/24 is directly connected, Serial2/0

Router#

```

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```
Router0
Router>config t
^
% Invalid input detected at '^' marker.

Router>enable
Router# config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 60.0.0.0 255.0.0.0 192.162.10.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

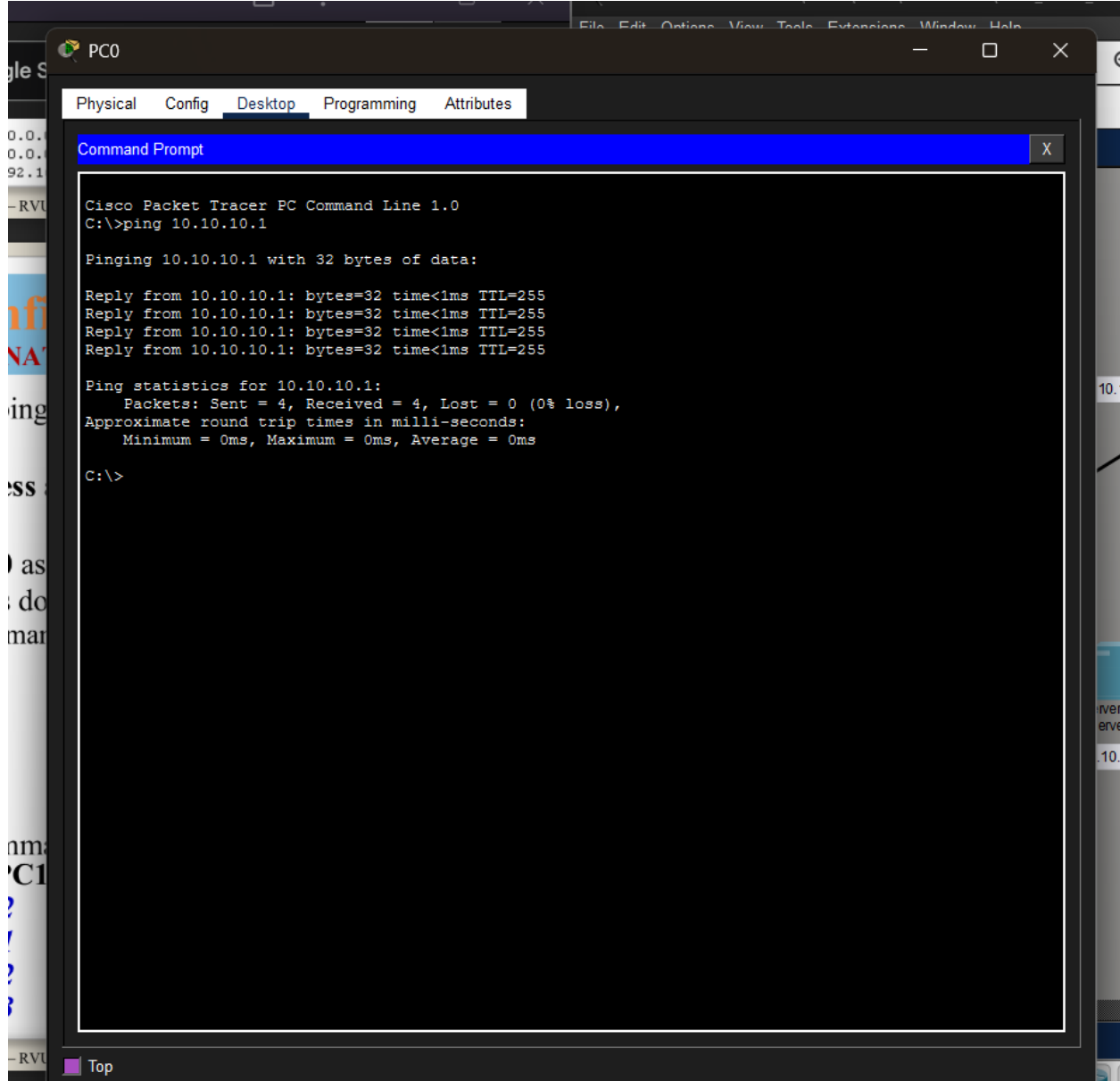
Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
S    60.0.0.0/8 [1/0] via 192.162.10.2
C    192.162.10.0/24 is directly connected, Serial2/0

Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastEthernet 0/0
Router(config-if)#ip nat inside
Router(config-if)#exit
Router(config)#interface serial 2/0
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)# exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip nat statistics
Total translations: 2 (2 static, 0 dynamic, 0 extended)
Outside Interfaces: Serial2/0
Inside Interfaces: FastEthernet0/0
Hits: 0 Misses: 0
Expired translations: 0
Dynamic mappings:
Router#
```

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Top



The screenshot shows a 'PC0' window in Cisco Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The text in the Command Prompt is as follows:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.10.10.1

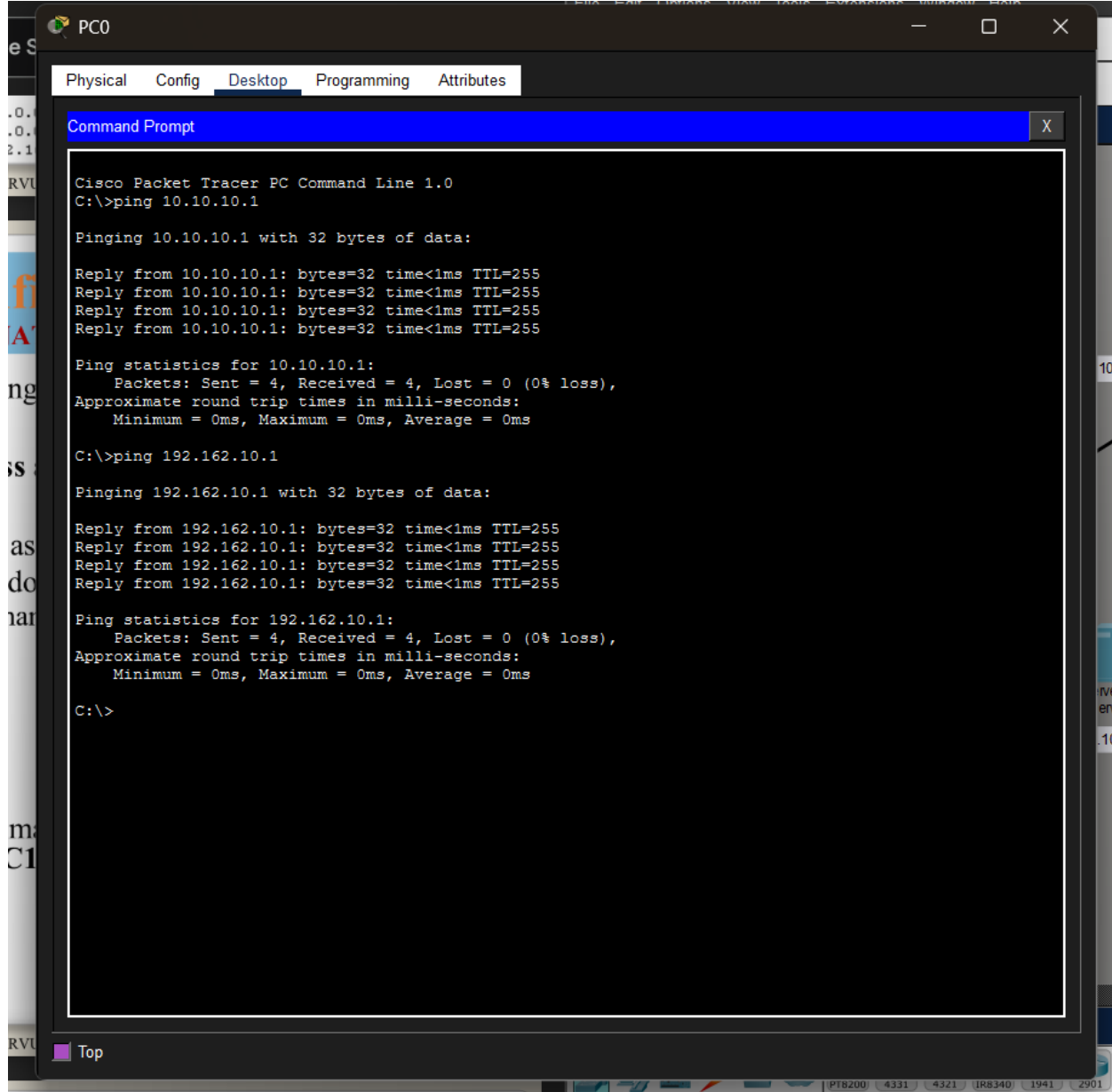
Pinging 10.10.10.1 with 32 bytes of data:

Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.10.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

At the bottom of the PC0 window, there is a 'Top' button.



The screenshot shows a Cisco Packet Tracer PC Command Line window for a device named PC0. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with 'Desktop' selected. The Command Prompt shows the following output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.10.10.1

Pinging 10.10.10.1 with 32 bytes of data:

Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.10.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.162.10.1

Pinging 192.162.10.1 with 32 bytes of data:

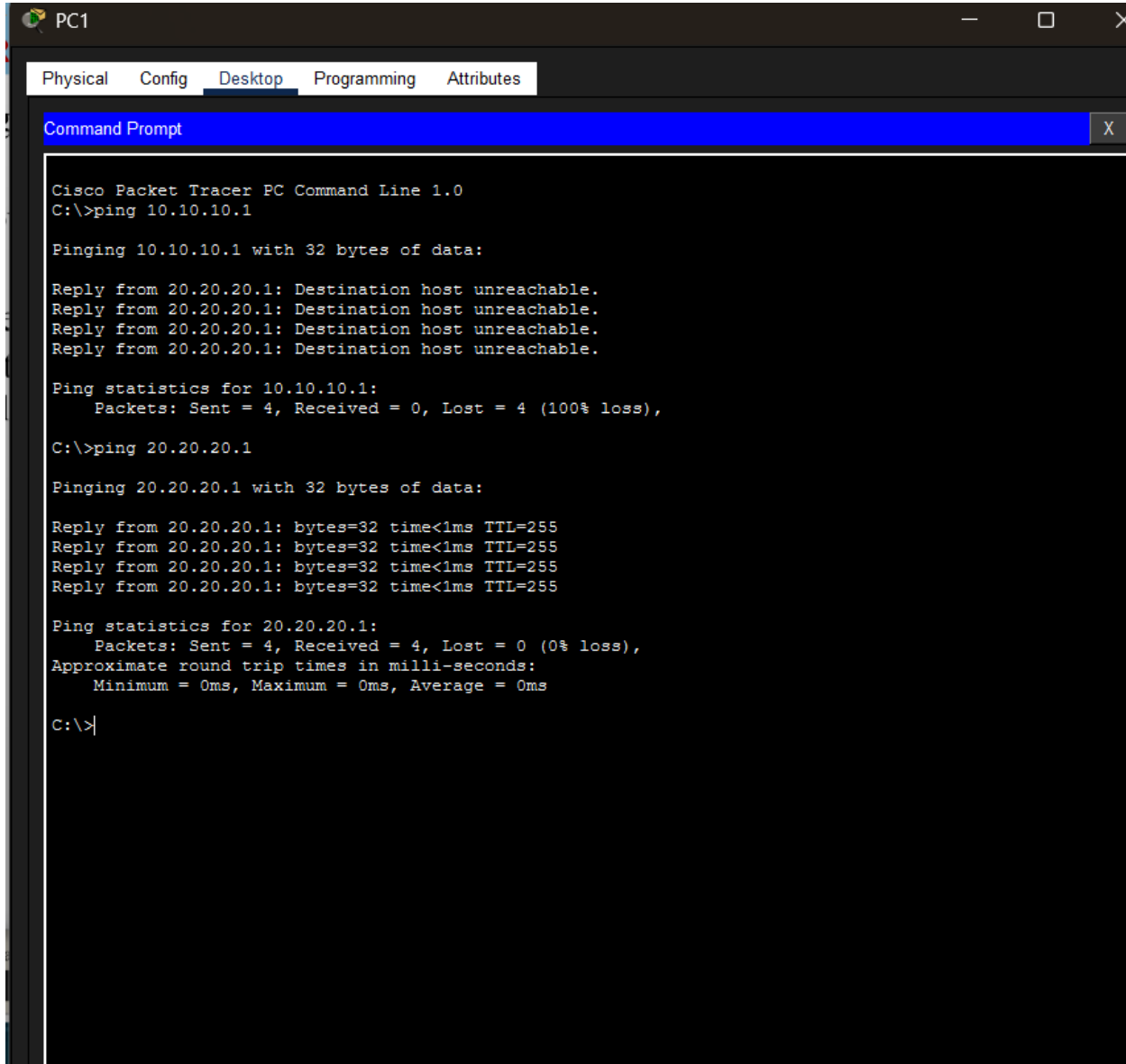
Reply from 192.162.10.1: bytes=32 time<1ms TTL=255
Reply from 192.162.10.1: bytes=32 time<1ms TTL=255
Reply from 192.162.10.1: bytes=32 time<1ms TTL=255
Reply from 192.162.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.162.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

The window also shows a 'Top' button at the bottom left and a taskbar at the bottom with several open applications and a system clock showing 10:10.





```
PC1
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.10.10.1

Pinging 10.10.10.1 with 32 bytes of data:

Reply from 20.20.20.1: Destination host unreachable.
Reply from 20.20.20.1: Destination host unreachable.
Reply from 20.20.20.1: Destination host unreachable.
Reply from 20.20.20.1: Destination host unreachable.

Ping statistics for 10.10.10.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 20.20.20.1

Pinging 20.20.20.1 with 32 bytes of data:

Reply from 20.20.20.1: bytes=32 time<1ms TTL=255
Reply from 20.20.20.1: bytes=32 time<1ms TTL=255
Reply from 20.20.20.1: bytes=32 time<1ms TTL=255
Reply from 20.20.20.1: bytes=32 time<1ms TTL=255

Ping statistics for 20.20.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```