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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      Oi
--- 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#
```

The screenshot shows a software application window titled "Router0". The top menu bar includes "File", "Edit", "Options", "View", "Tools", "Extensions", "Window", and "Help". Below the menu is a toolbar with icons for "Physical", "Config", "CLI" (which is highlighted in blue), and "Attributes". The main area of the window is a terminal-like interface.

Terminal output:

```
Router>
Router con0 is now available
Press RETURN to get started.

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       ---             ---
```

At the bottom of the terminal window, there are "Copy" and "Paste" buttons. The status bar at the very bottom shows the IP address 192.162.10.1 and several system identifiers: PTB200, 4331, 4321, IR8340, 1941, and 2901.

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#

```

Copy Paste

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CS3403: Network Security

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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#

```

Copy Paste

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

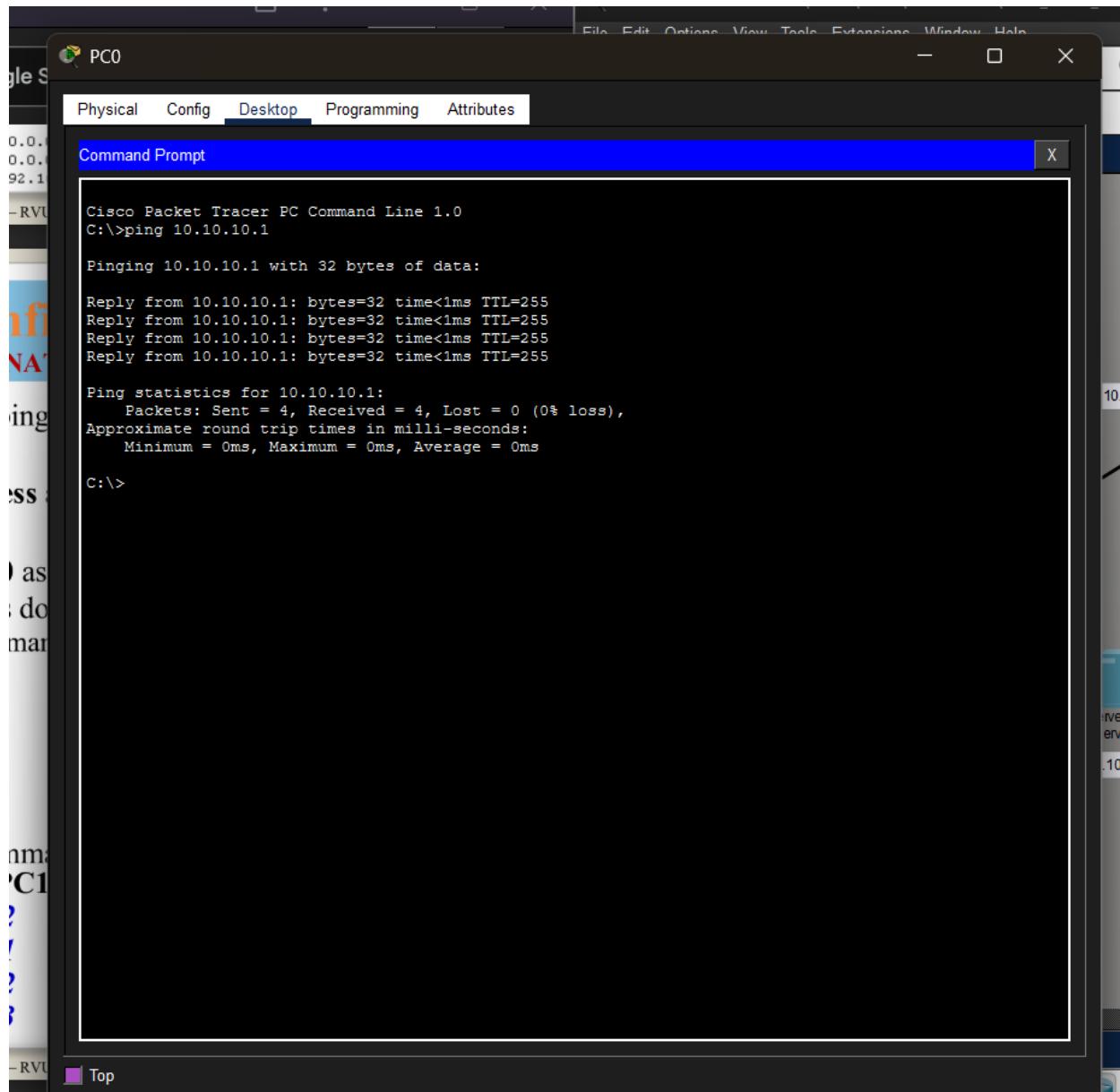
Gateway of last resort is not set

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#

Copy Paste

Top



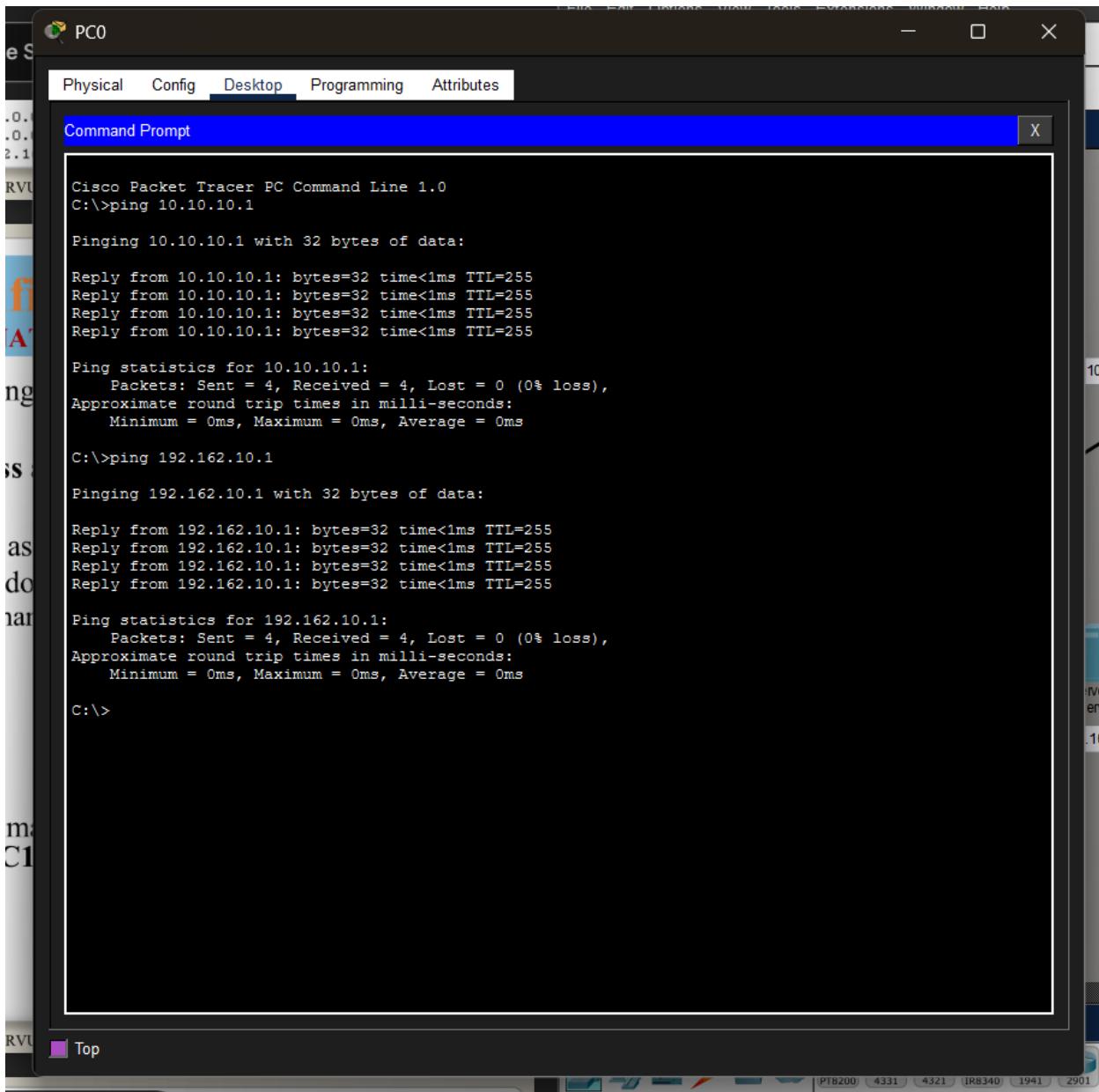
The screenshot shows a Cisco Packet Tracer interface with a window titled "PC0". The window has tabs: Physical, Config, Desktop (which is selected), Programming, and Attributes. Inside the window, a "Command Prompt" window is open with the title "Command Prompt". The command entered is "C:\>ping 10.10.10.1". The output shows the ping results:

```
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

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:\>
```



The screenshot shows a window titled "Command Prompt" from Cisco Packet Tracer. The window has tabs: Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is selected. The command line output 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

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

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:\>
```

PC1

Physical Config Desktop Programming Attributes

Command Prompt X

```
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.

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

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:\>
```