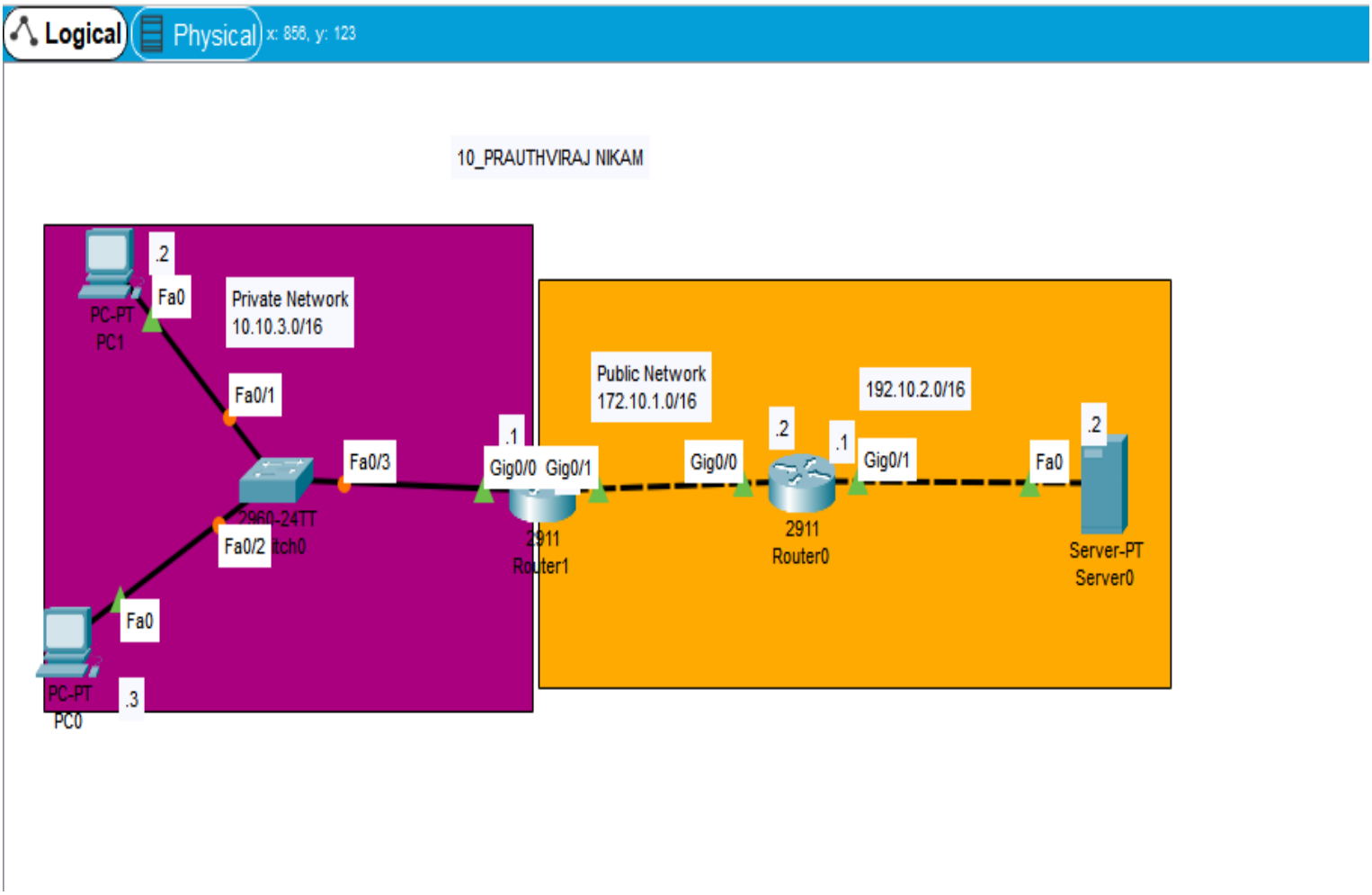
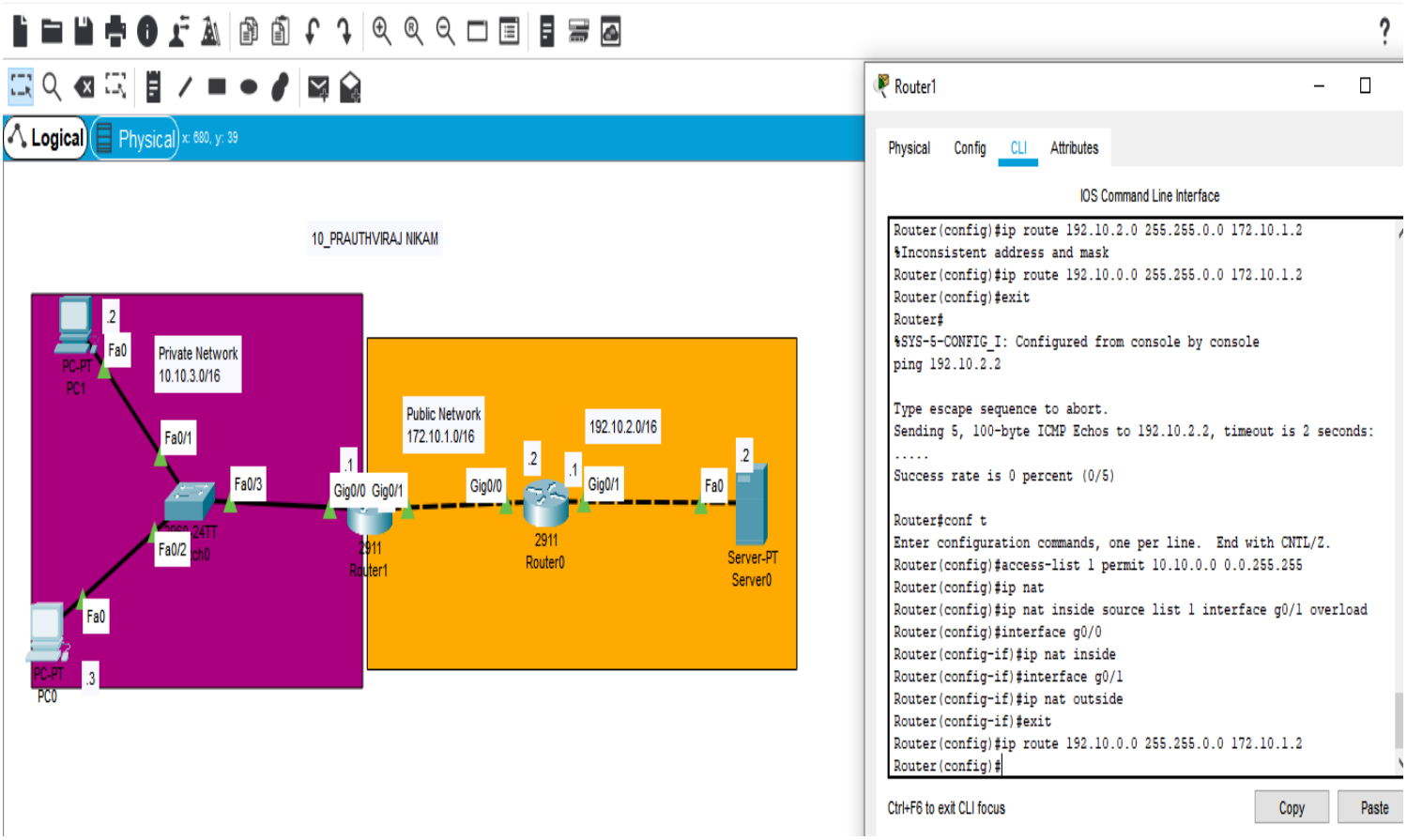
Module:- Fundamental Computer Network **Date:- 17/10/2022**

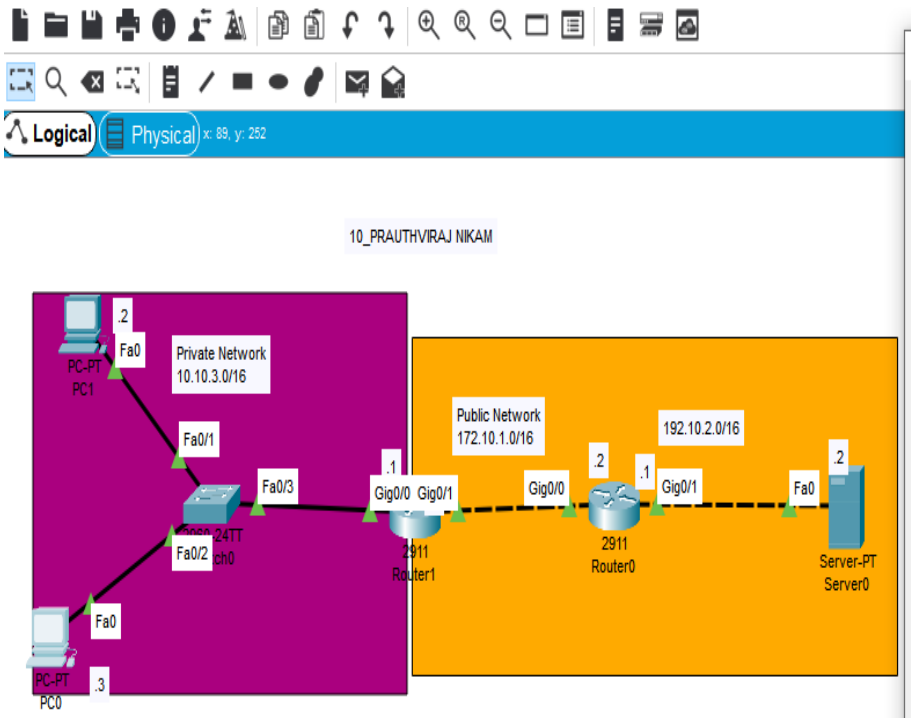
Assignment :- 07 (NAT-Network Address Translation)

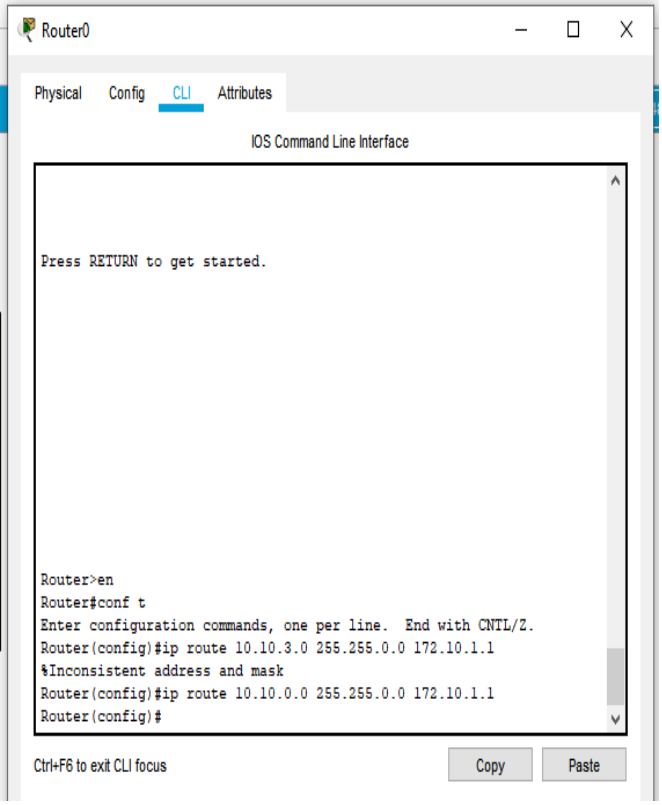
IP Schema for Your Network: xxx. Roll_Number .yyy.zzz

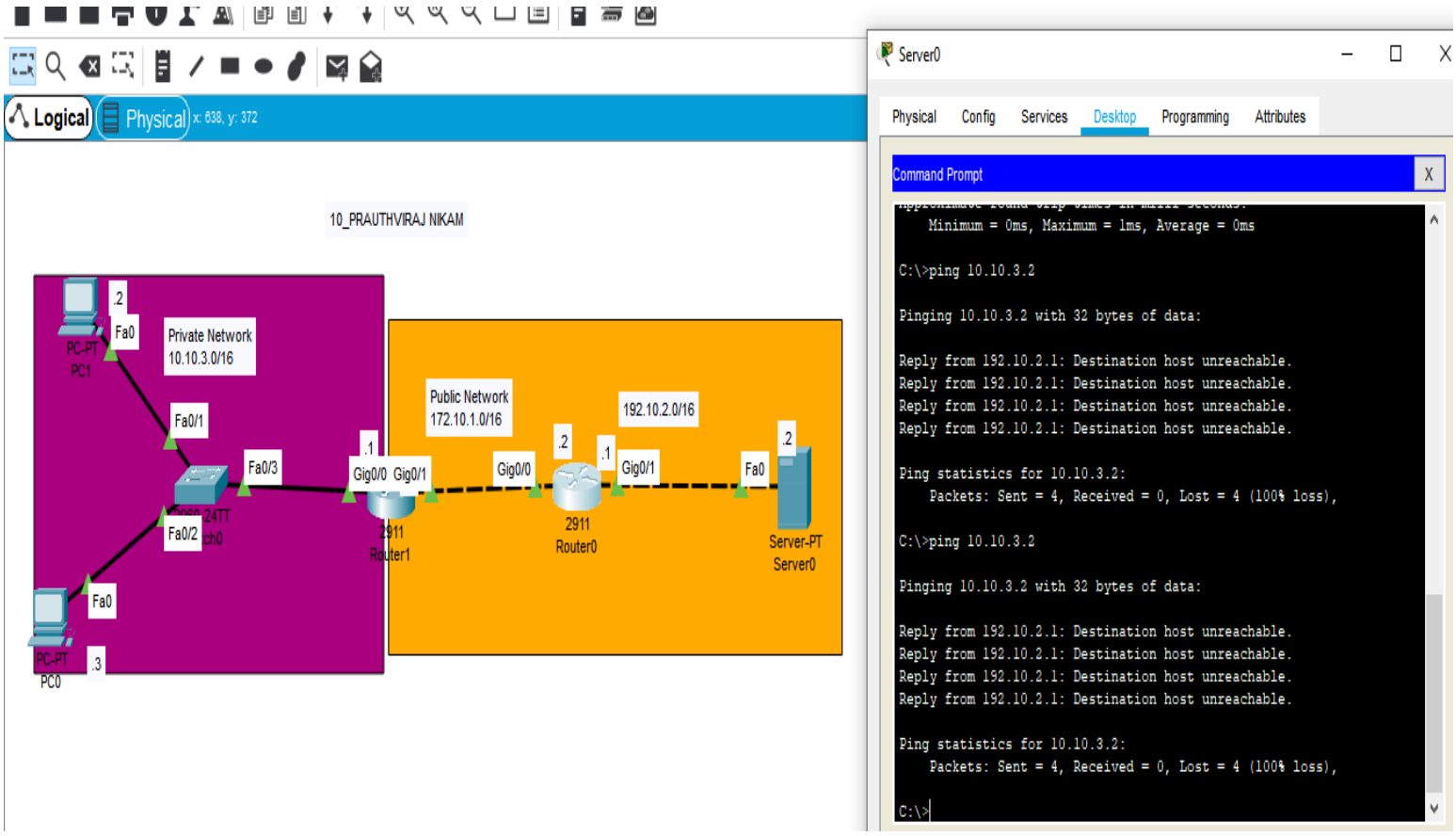
Example: If your roll No. ends with 25, then the IP you can use as follows.




Logical
Physical
x: 680, y: 39
10_PRAUTHVIRAJ NIKAM
Private Network
10.10.3.0/16
Public Network
172.10.1.0/16
192.10.2.0/16
PC-PT
PC1
PC-PT
PC0
Fa0
Fa0/1
Fa0/2
Fa0/3
24TT
ch0
Gig0/0
Gig0/1
2911
Router1
2911
Router0
Server-PT
Server0
.1
.2
.3
Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#ip route 192.10.2.0 255.255.0.0 172.10.1.2
%Inconsistent address and mask
Router(config)#ip route 192.10.0.0 255.255.0.0 172.10.1.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
ping 192.10.2.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.10.2.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 1 permit 10.10.0.0 0.0.255.255
Router(config)#ip nat
Router(config)#ip nat inside source list 1 interface g0/1 overload
Router(config)#interface g0/0
Router(config-if)#ip nat inside
Router(config-if)#interface g0/1
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#ip route 192.10.0.0 255.255.0.0 172.10.1.2
Router(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste


Logical
Physical
x: 89, y: 252
10_PRAUTHVIRAJ NIKAM
.2
Fa0
PC-PT
PC1
Private Network
10.10.3.0/16
Fa0/1
Fa0/3
Fa0/2
24TT
ch0
Fa0
PC-PT
PC0
.3
.1
Gig0/0
Gig0/1
2911
Router1
Public Network
172.10.1.0/16
Gig0/0
.2
.1
Gig0/1
2911
Router0
192.10.2.0/16
Fa0
.2
Server-PT
Server0


Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 10.10.3.0 255.255.0.0 172.10.1.1
%Inconsistent address and mask
Router(config)#ip route 10.10.0.0 255.255.0.0 172.10.1.1
Router(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste



Server0

Physical | Config | Services | Desktop | Programming | Attributes

Command Prompt

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

C:\>ping 10.10.3.2

Pinging 10.10.3.2 with 32 bytes of data:

Reply from 192.10.2.1: Destination host unreachable.
Reply from 192.10.2.1: Destination host unreachable.
Reply from 192.10.2.1: Destination host unreachable.
Reply from 192.10.2.1: Destination host unreachable.

Ping statistics for 10.10.3.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 10.10.3.2

Pinging 10.10.3.2 with 32 bytes of data:

Reply from 192.10.2.1: Destination host unreachable.
Reply from 192.10.2.1: Destination host unreachable.
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Reply from 192.10.2.1: Destination host unreachable.

Ping statistics for 10.10.3.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

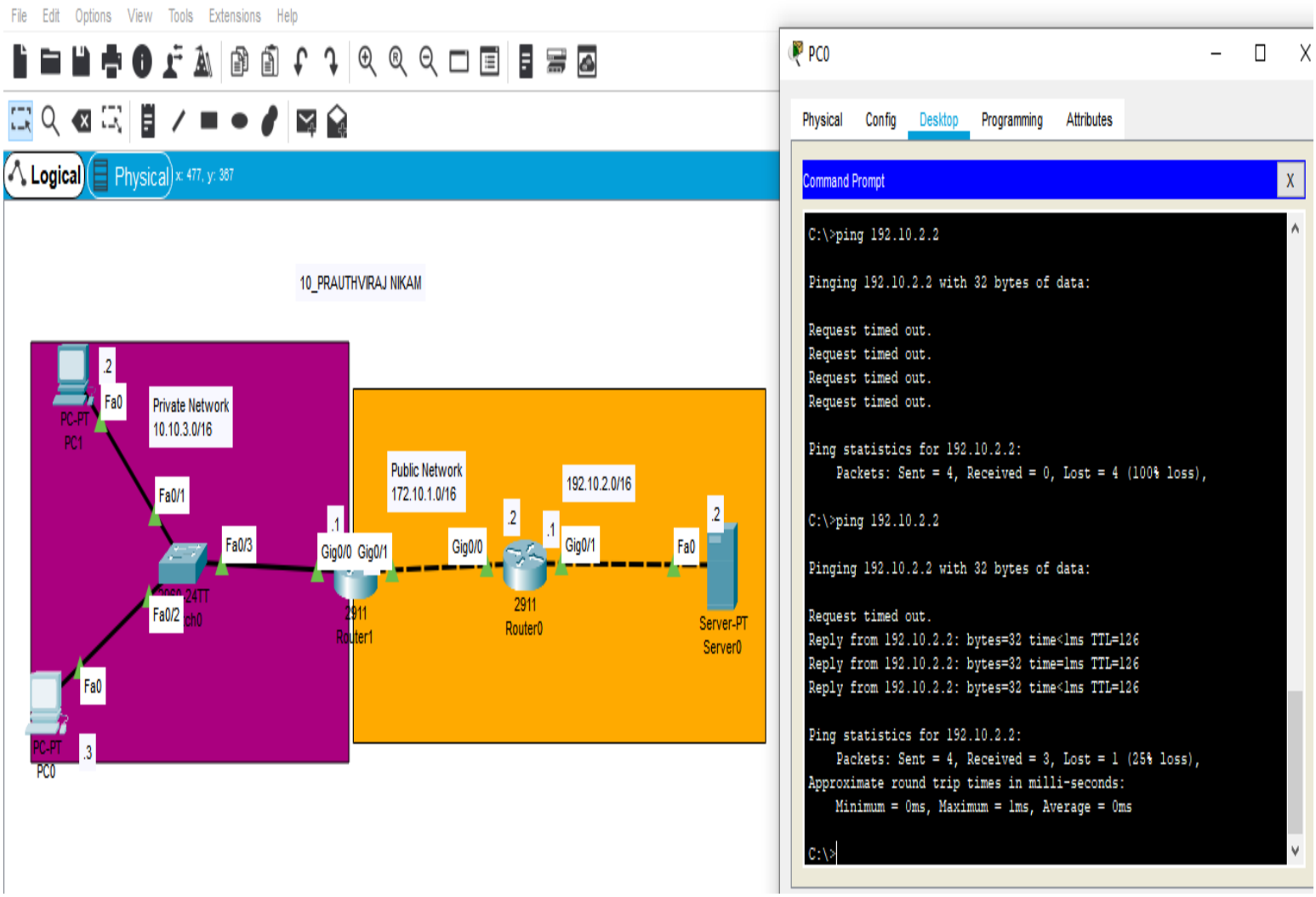
File Edit Options View Tools Extensions Help
Logical
Physical
x: 477, y: 367
10_PRAUTHVIRAJ NIKAM
Private Network
10.10.3.0/16
Public Network
172.10.1.0/16
192.10.2.0/16
PC-PT
PC1
PC-PT
PC0
Fa0
Fa0/1
Fa0/2
Fa0/3
24TT
ch0
Gig0/0
Gig0/1
2911
Router1
2911
Router0
Server-PT
Server0
.1
.2
.3
PC0
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>ping 192.10.2.2
Pinging 192.10.2.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.10.2.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.10.2.2
Pinging 192.10.2.2 with 32 bytes of data:
Request timed out.
Reply from 192.10.2.2: bytes=32 time<1ms TTL=126
Reply from 192.10.2.2: bytes=32 time=1ms TTL=126
Reply from 192.10.2.2: bytes=32 time<1ms TTL=126
Ping statistics for 192.10.2.2:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>