INFORMATION SECURITY MANAGEMENT LAB DA-5

STATIC NAT

BY:

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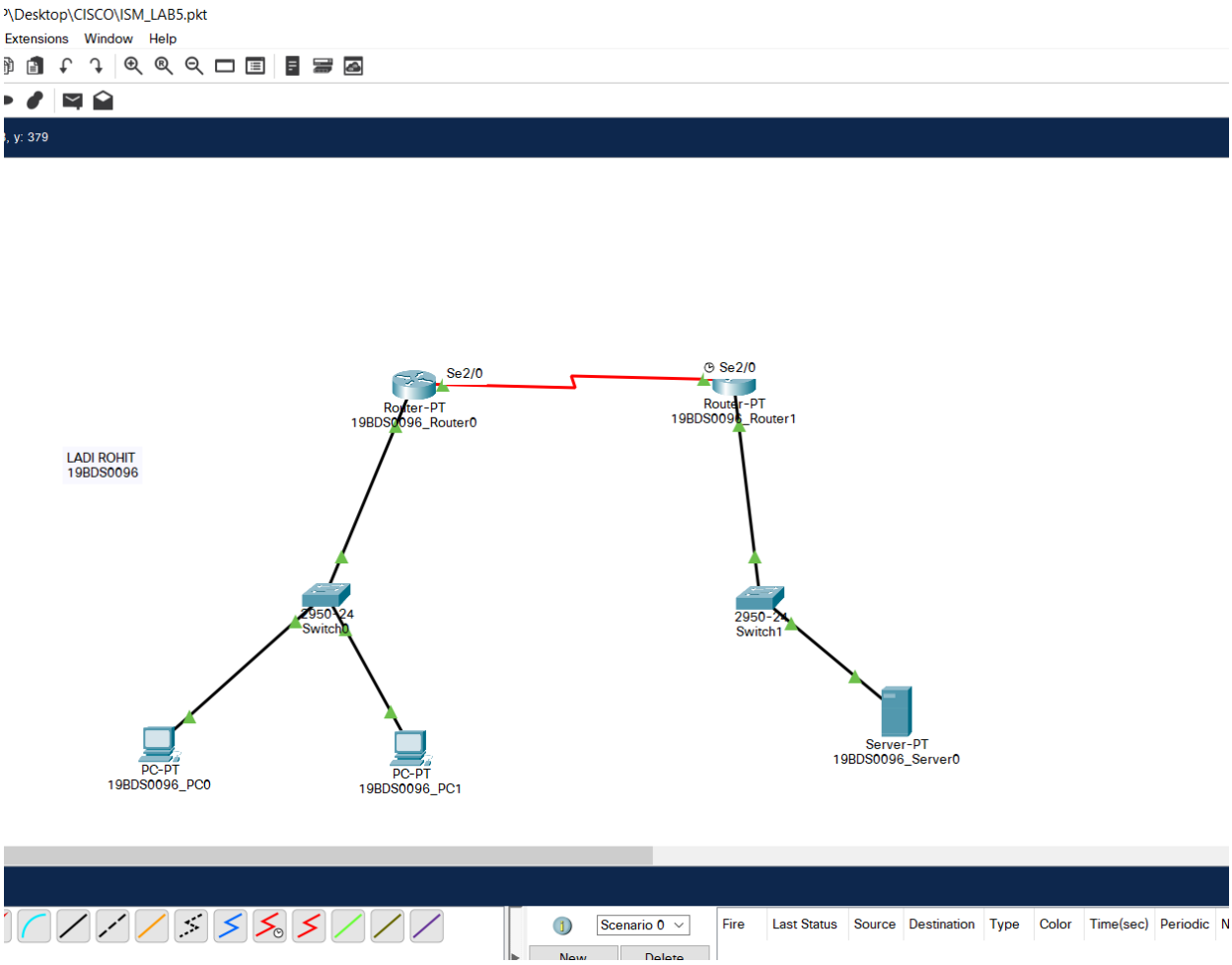
COURSE CODE: **CSE3502**

FACULTY: **Dr. Ruby D**

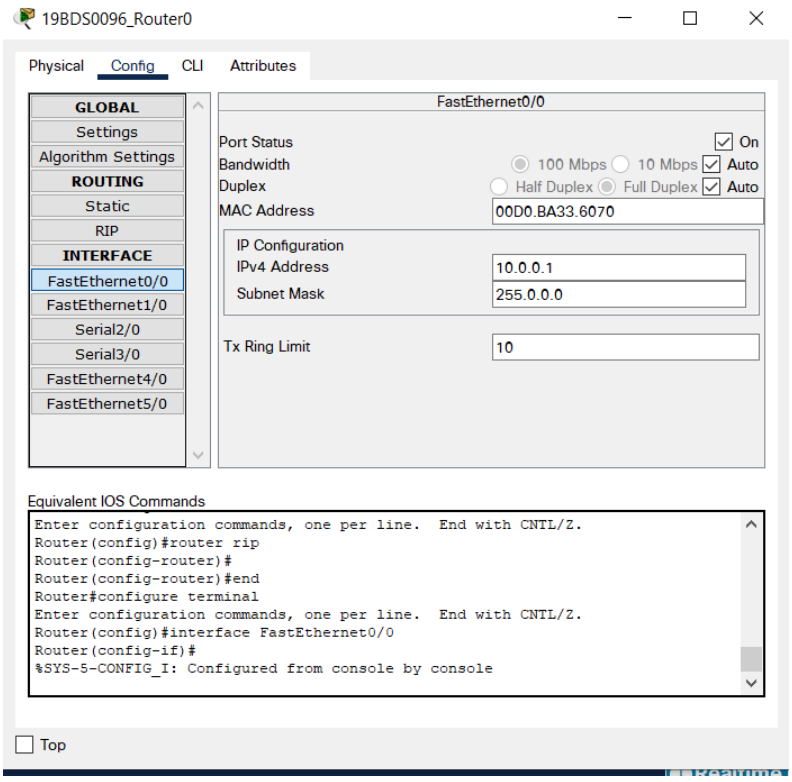
AIM: To implement static NAT for the given scenario and to configure the network address translation through CLI and to check how incoming and outgoing communication is done using Cisco packet tracer.

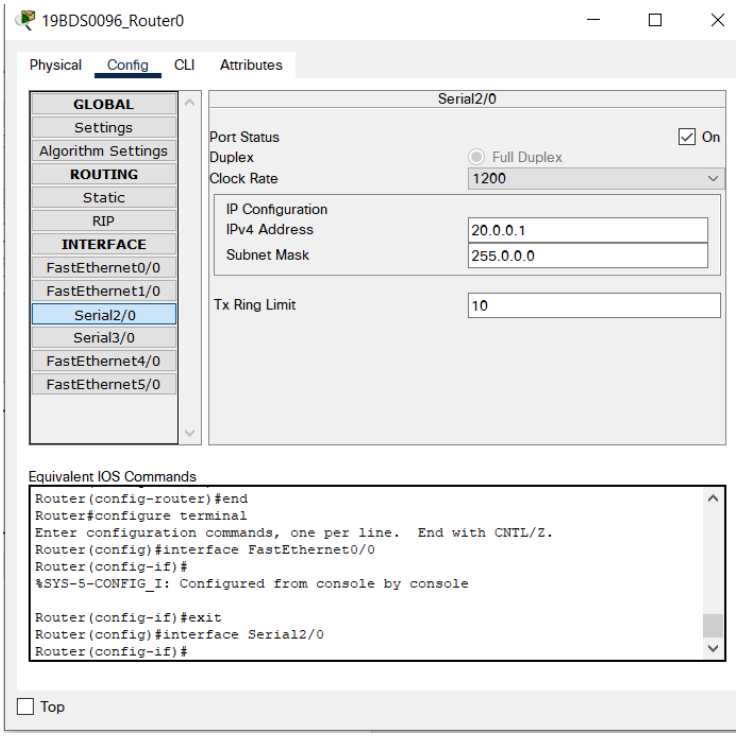
PROBLEM STATEMENT:

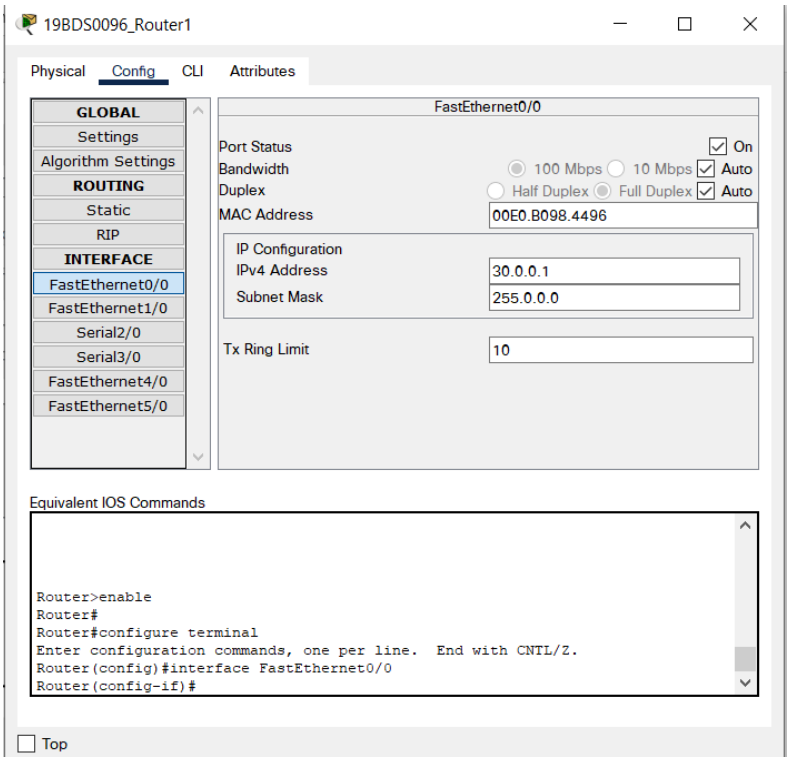
Implement static NAT for the given scenario and check the communication for incoming and outgoing packets in the network.

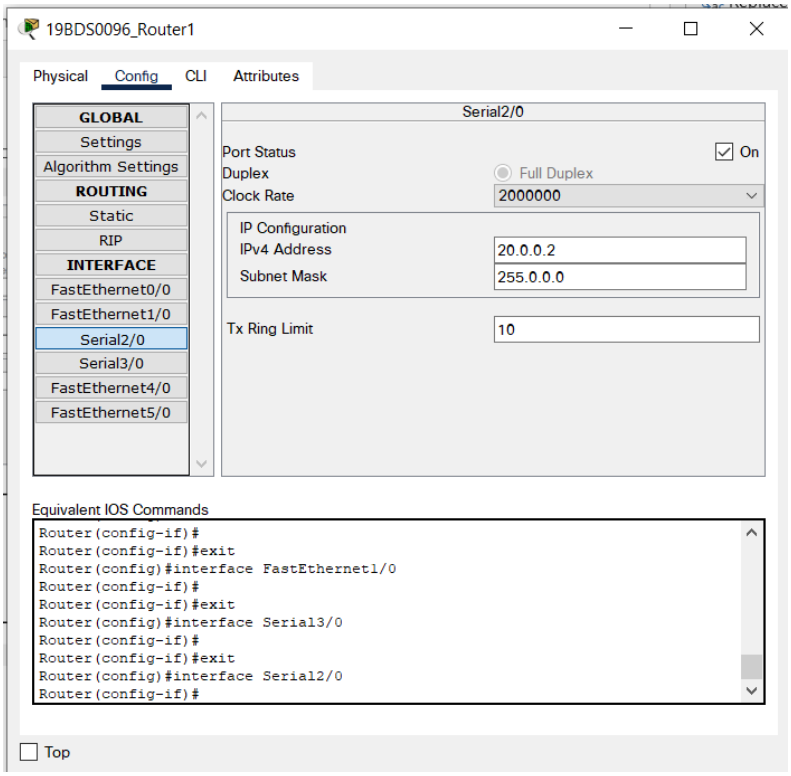


CONFIGURATION OF ROUTERS:

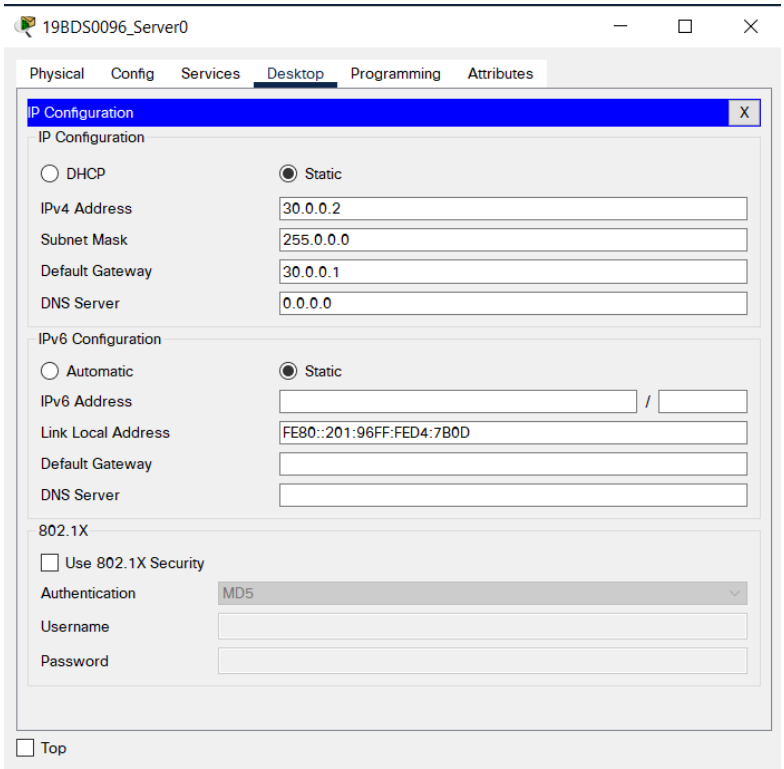



19BDS0096_Router0
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
Serial2/0
Port Status
On
Duplex
Full Duplex
Clock Rate
1200
IP Configuration
IPv4 Address
20.0.0.1
Subnet Mask
255.0.0.0
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Top

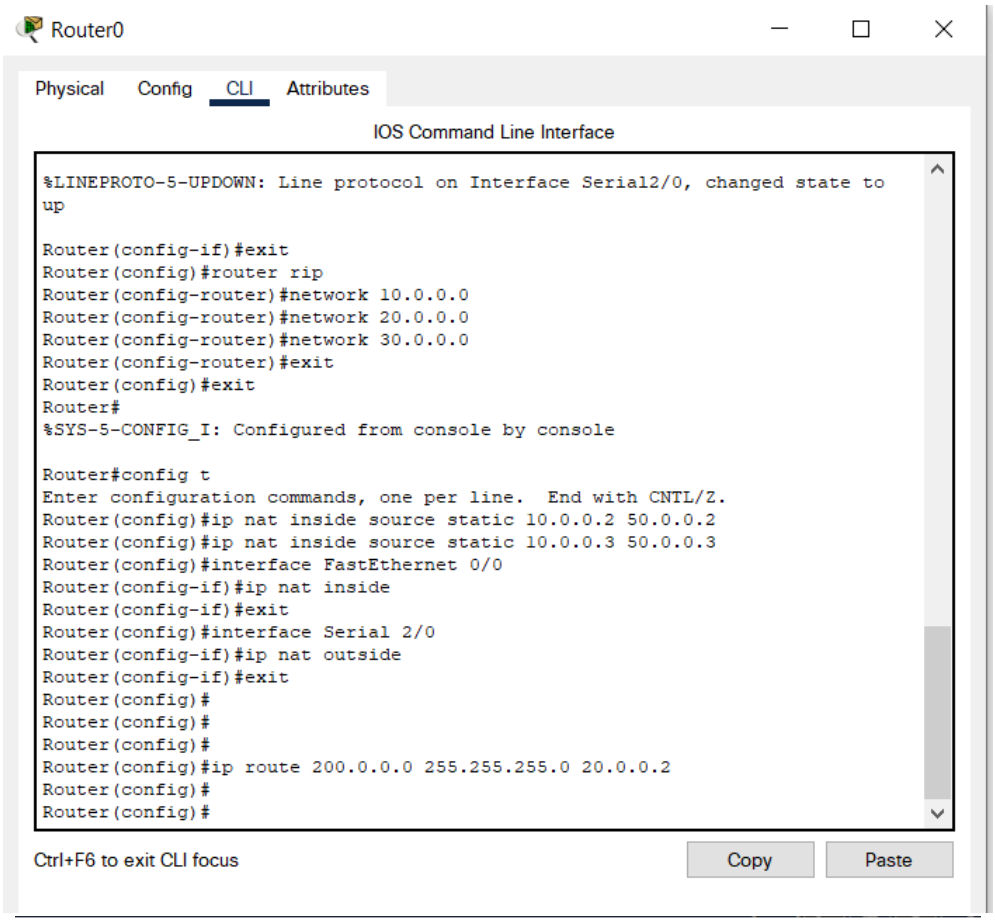

19BDS0096_Router1
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
FastEthernet0/0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
00E0.B098.4496
IP Configuration
IPv4 Address
30.0.0.1
Subnet Mask
255.0.0.0
Tx Ring Limit
10
Equivalent IOS Commands
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
Top

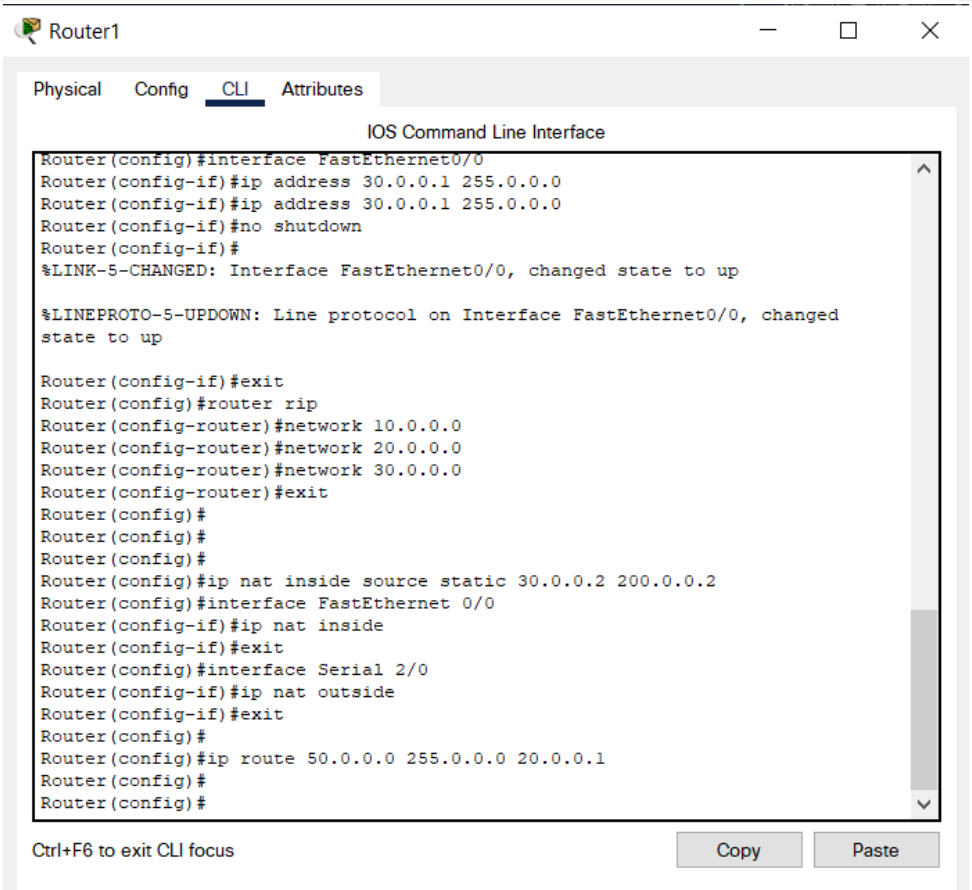


CONFIGURATION OF SERVER:

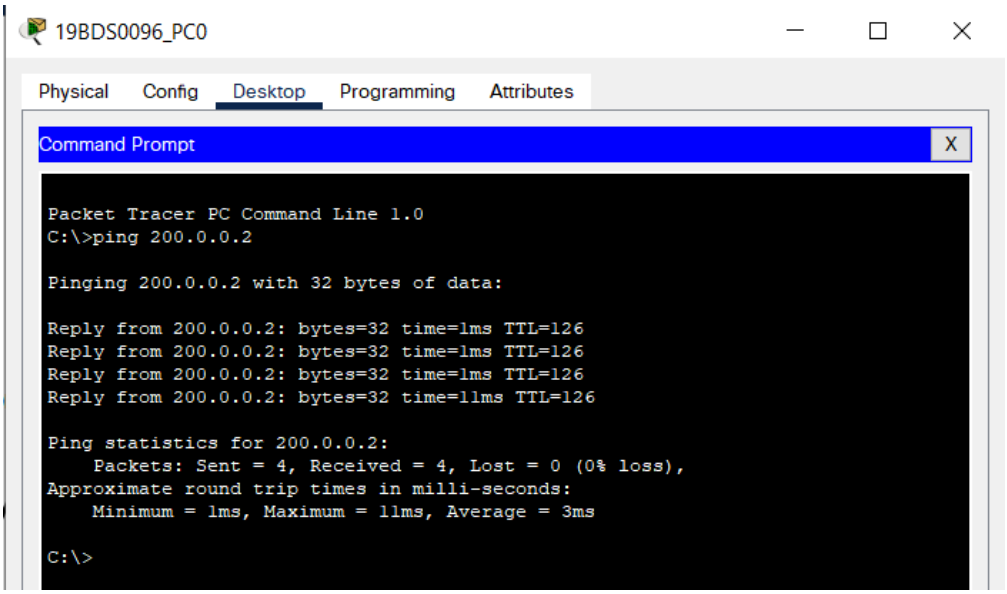


CONFIGURING OF STATIC NAT USING CLI:

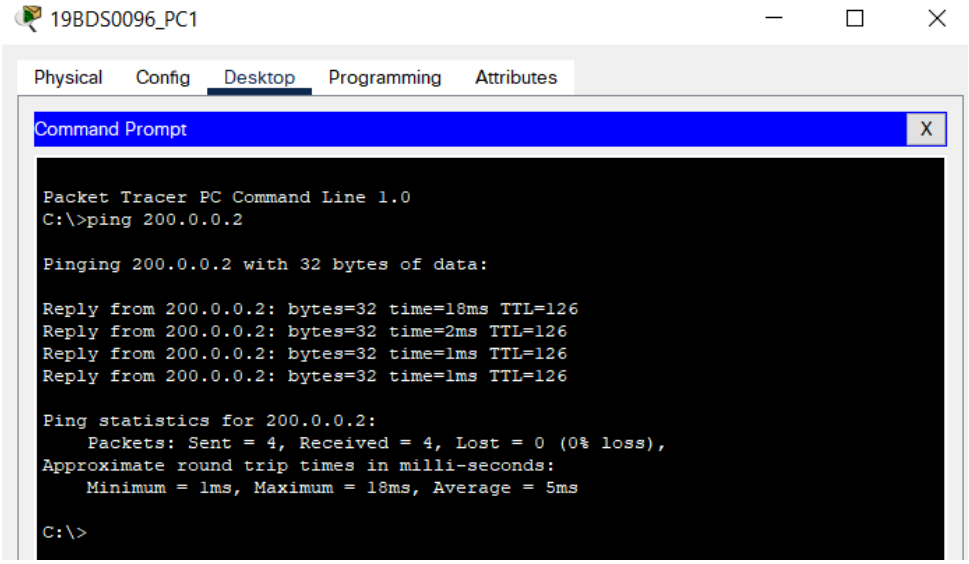




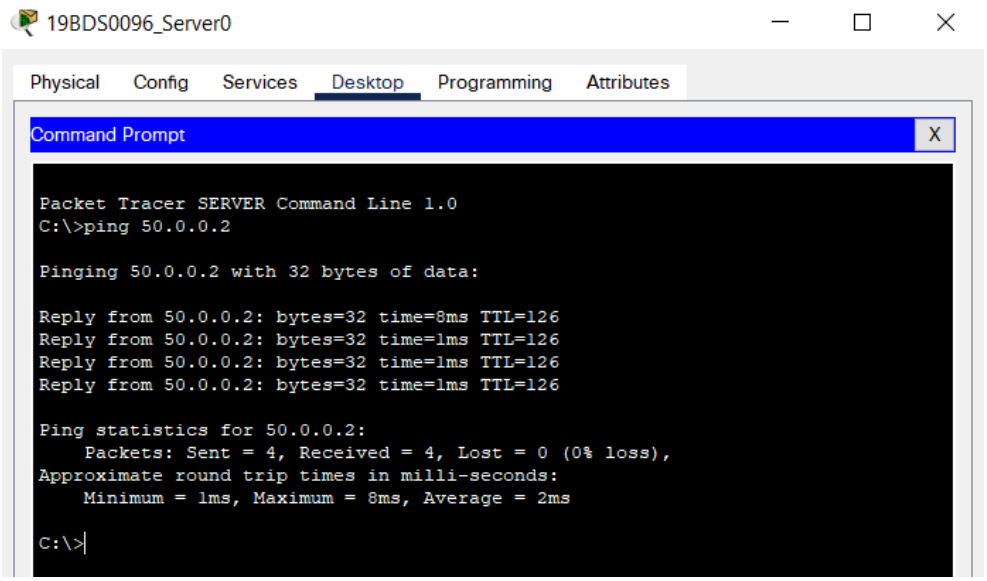
PINGING SERVER(OUTSIDE) FROM PC0(INSIDE) AFTER CONFIGURING STATIC NAT:



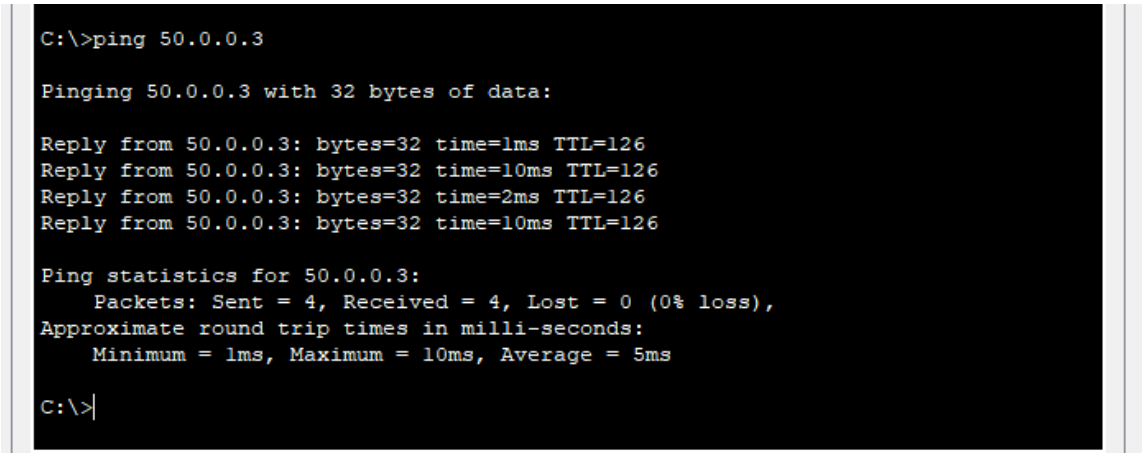
PINGING SERVER(OUTSIDE) FROM PC1(INSIDE) AFTER CONFIGURING STATIC NAT:



PINGING PC0(INSIDE) FROM SERVER(OUTSIDE) AFTER CONFIGURING STATIC NAT:



PINGING PC1(INSIDE) FROM SERVER(OUTSIDE) AFTER CONFIGURING STATIC NAT:



RESULT:

Static NAT is implemented and configured successfully for the given scenario and data communication is checked using realtime simulation before and after configuring static NAT between all the devices(router,server and Pc's) and they are communicating successfully