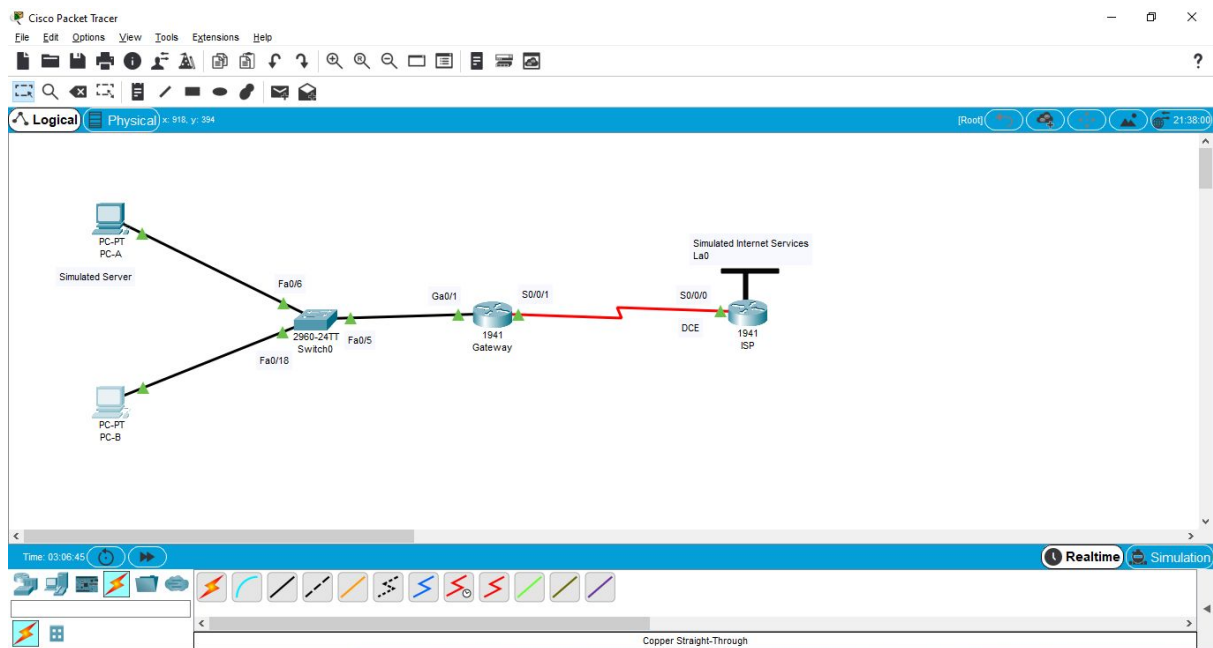


Group 5
Jiten Sidhpura 57
Trusha Talati 60
Rudresh Veerkhare 66

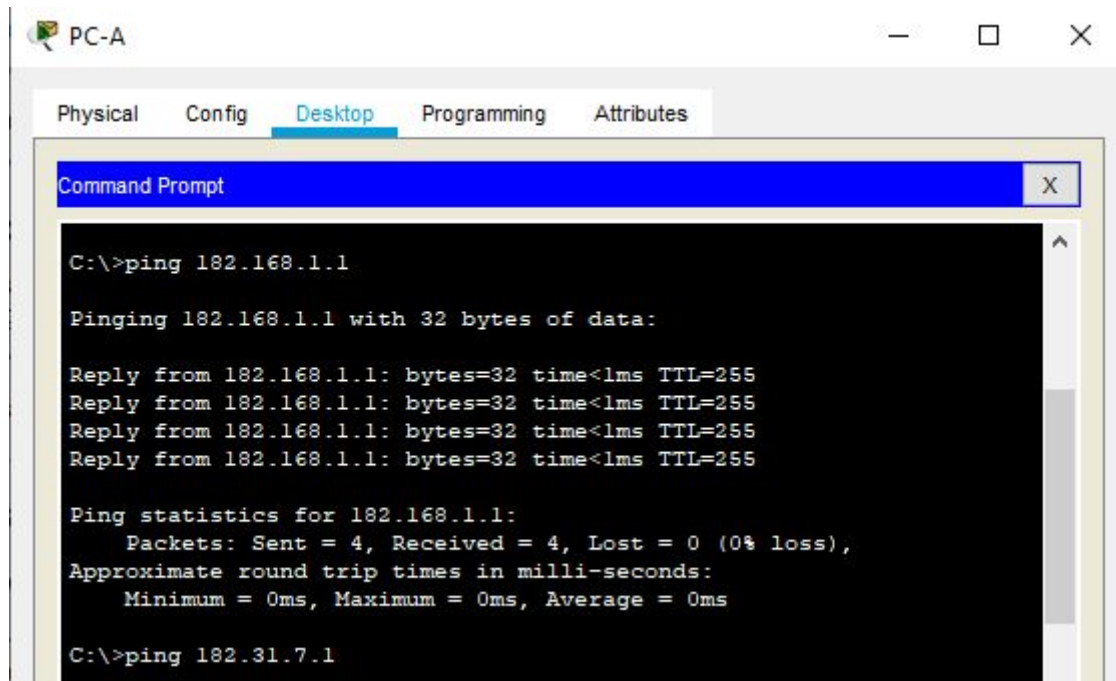
ISE2 – Configuring Dynamic and Static NAT Topology

Task 1 :

Network Topology



PING from PC-A to Gateway:



The screenshot shows a Packet Tracer window for PC-A. The 'Desktop' tab is selected, displaying a Command Prompt window. The Command Prompt shows the execution of a ping command to 182.168.1.1, which is successful. The output includes details about the data size (32 bytes), TTL (255), and statistics showing 4 packets sent and received with 0% loss.

```
C:\>ping 182.168.1.1

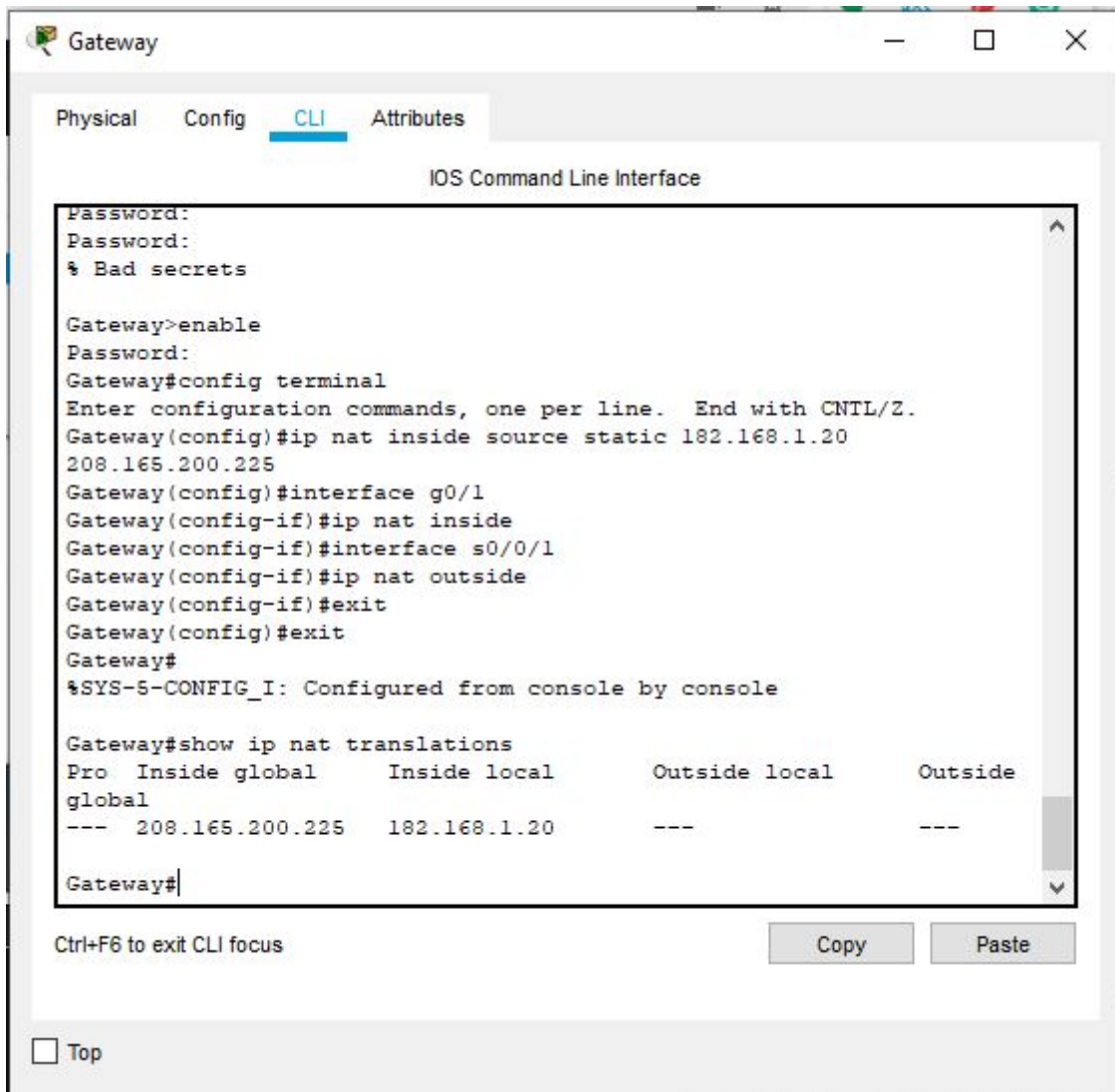
Pinging 182.168.1.1 with 32 bytes of data:

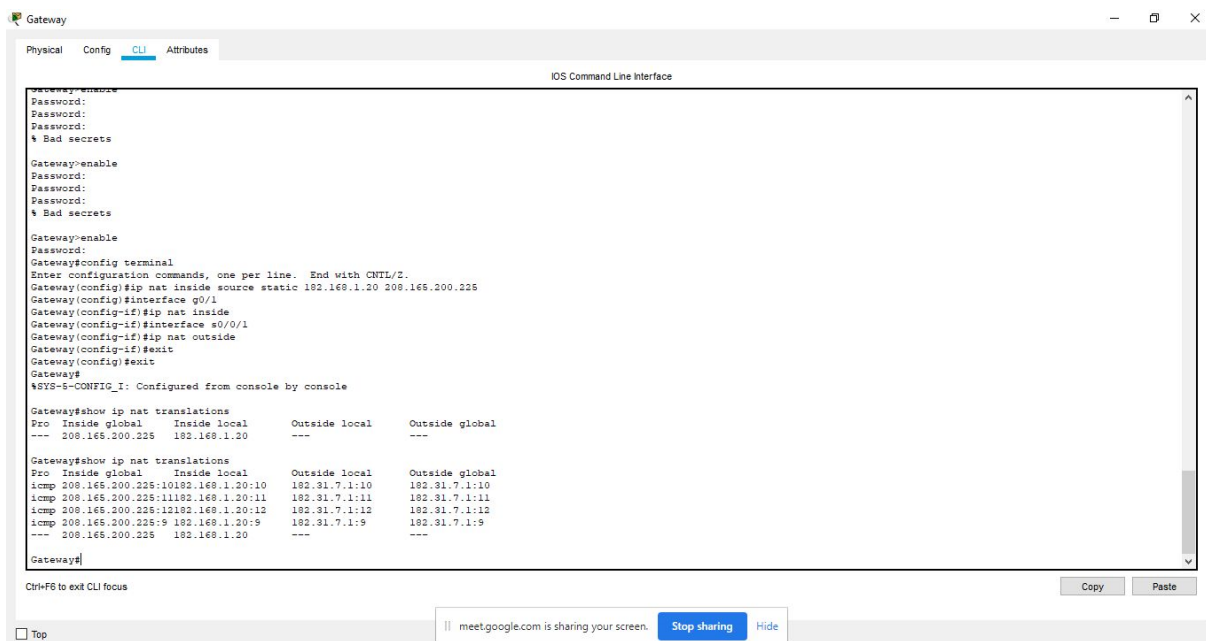
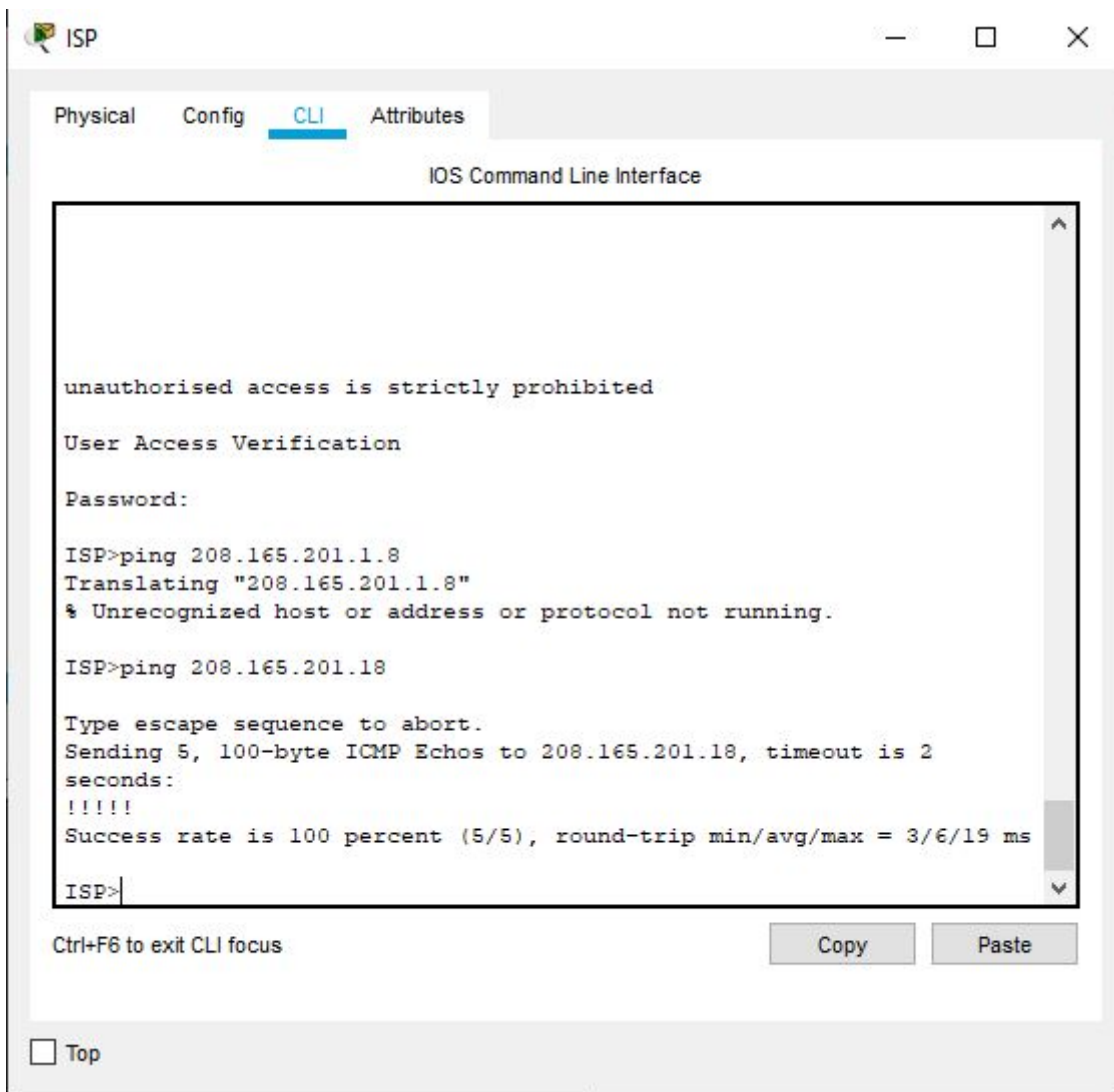
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255

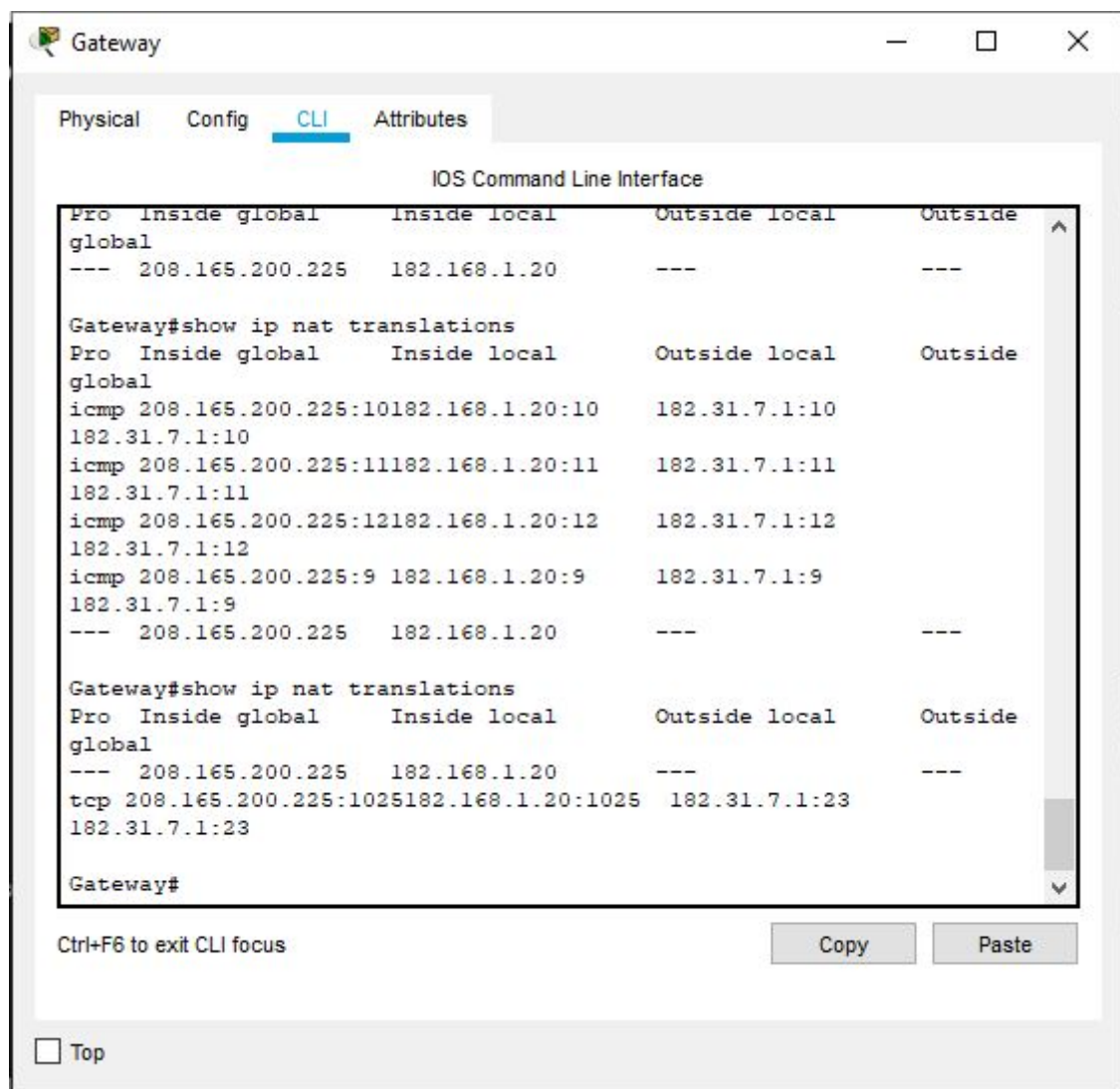
Ping statistics for 182.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 182.31.7.1
```

Task 2 STATIC NAT :







Dynamic NAT :

```

Gateway#clear ip nat translation *
Gateway#clear ip nat statistics
^
% Invalid input detected at '^' marker.

```

```

Gateway(config)#access-list 1 permit 182.168.1.0 0.0.0.255
Gateway(config)#show ip nat statistics

```

```

Gateway(config)#ip nat pool public_access 208.165.200.242 208.165.200.254 netmask 255.255.255.224
Gateway(config)#ip nat inside source list 1 pool public_access
Gateway(config)#exit

```

```

Gateway#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
--- 208.165.200.225    182.168.1.20      ---                ---

```

```

Gateway#show ip nat statistics
Total translations: 3 (1 static, 2 dynamic, 2 extended)
Outside Interfaces: Serial0/0/1
Inside Interfaces: GigabitEthernet0/1
Hits: 89 Misses: 53
Expired translations: 18
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 2
pool public_access: netmask 255.255.255.224
start 208.165.200.242 end 208.165.200.254
type generic, total addresses 13 , allocated 1 (7%), misses 0

```

```

Gateway#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
icmp 208.165.200.242:13182.168.1.20:13 182.31.7.1:13 182.31.7.1:13
icmp 208.165.200.242:14182.168.1.20:14 182.31.7.1:14 182.31.7.1:14
icmp 208.165.200.242:15182.168.1.20:15 182.31.7.1:15 182.31.7.1:15
icmp 208.165.200.242:16182.168.1.20:16 182.31.7.1:16 182.31.7.1:16
icmp 208.165.200.243:13182.168.1.21:13 182.31.7.1:13 182.31.7.1:13
icmp 208.165.200.243:14182.168.1.21:14 182.31.7.1:14 182.31.7.1:14
icmp 208.165.200.243:15182.168.1.21:15 182.31.7.1:15 182.31.7.1:15
icmp 208.165.200.243:16182.168.1.21:16 182.31.7.1:16 182.31.7.1:16

```

```

Gateway#show ip nat statistics
Total translations: 4 (0 static, 4 dynamic, 4 extended)
Outside Interfaces: Serial0/0/1
Inside Interfaces: GigabitEthernet0/1
Hits: 97 Misses: 61
Expired translations: 23
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 4
pool public_access: netmask 255.255.255.224
start 208.165.200.242 end 208.165.200.254
type generic, total addresses 13 , allocated 1 (7%), misses 0
Gateway#

```