GROUP NO.: 6

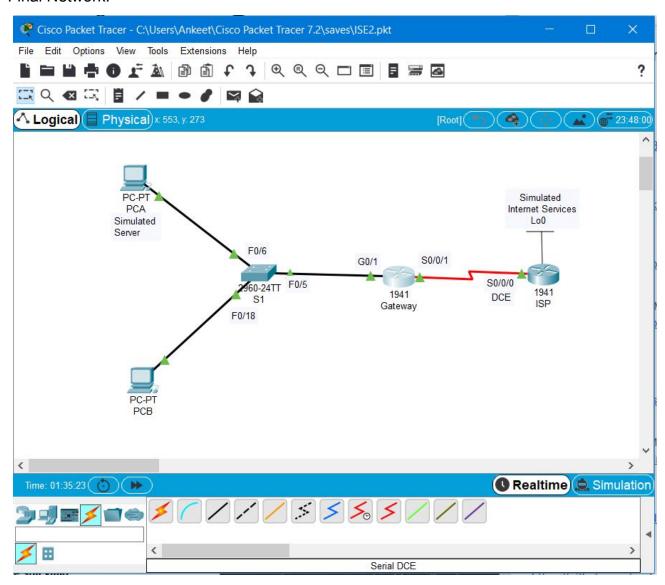
ANKEET THONGIRE 2018130056 PRADNYA TOPALE 2018130057 SOHAM VAIDYA 2018130058

TE COMPS

DCCN LAB ISE2

Task 1:

Final Network:



Pinging G0/1 interface on the gateway router from PCA:

```
PCA
    Physical
                        Config
                                      Desktop Programming
    Command Prompt
                                                                                                                                                                                                                           Х
    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 = 1ms, Average = 0ms
     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 = 1ms, Average = 0ms
     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 = 1ms, Average = 0ms
Тор
```

Pinging G0/1 interface on the gateway router from PCB:

```
PCB
    Physical
                      Config Desktop Programming
                                                                                 Attributes
    Command Prompt
                                                                                                                                                                                                          Х
    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 = lms, Average = 0ms
     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<lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time=lms 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 = lms, Average = 0ms
    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:

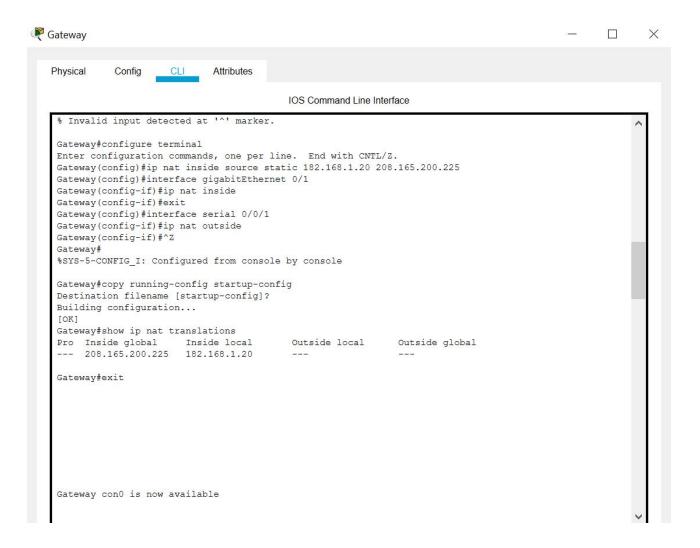
Minimum = 0ms, Maximum = 1ms, Average = 0ms
    C:\>
 Тор
```

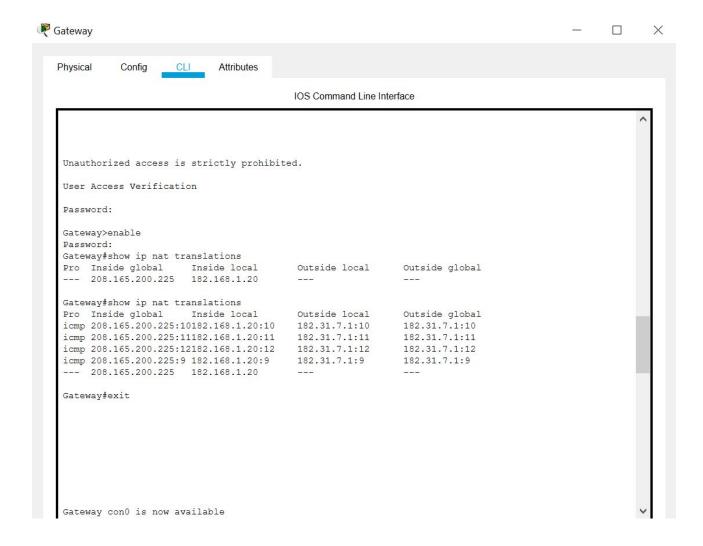
Task 2:

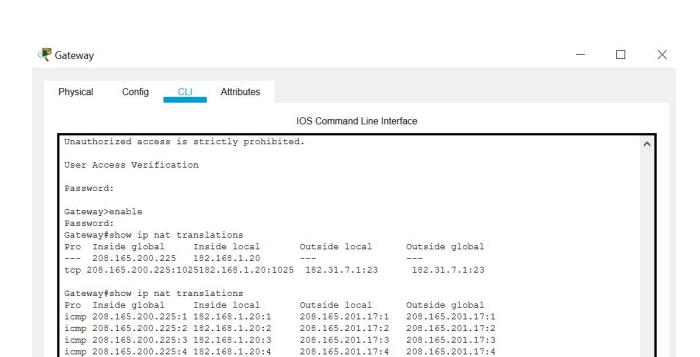
Pinging 182.31.7.1 from PC-A:

```
₽ PCA
                                                                                                                                            X
    Physical
                   Config
                                Desktop Programming
                                                                     Attributes
     Command Prompt
                                                                                                                                                X
            Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
     C:\>ping 182.31.7.1
      Pinging 182.31.7.1 with 32 bytes of data:
     Reply from 182.31.7.1: bytes=32 time=16ms TTL=254
     Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
     Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
      Ping statistics for 182.31.7.1:
           Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
      Approximate round trip times in milli-seconds:
           Minimum = 1ms, Maximum = 16ms, Average = 4ms
      C:\>ping 182.31.7.1
      Pinging 182.31.7.1 with 32 bytes of data:
      Reply from 182.31.7.1: bytes=32 time=2ms \mathtt{TTL}=254
     Reply from 182.31.7.1: bytes=32 time=2ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
      Ping statistics for 182.31.7.1:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 2ms, Average = 1ms
     C:\>telnet 182.31.7.1
     Trying 182.31.7.1 ...Open
Unathorized access is strictly prohibited
      User Access Verification
```

The following shows the NAT translations' output:







208.165.201.17:5

208.165.201.17:3

208.165.201.17:4 208.165.201.17:5

182.31.7.1:23

Gateway#show ip nat statistics

Total translations: 2 (1 static, 1 dynamic, 1 extended)

tcp 208.165.200.225:1025182.168.1.20:1025 182.31.7.1:23

Outside Interfaces: Serial0/0/1 Inside Interfaces: GigabitEthernet0/1

icmp 208.165.200.225:3 182.168.1.20:3

icmp 208.165.200.225:4 182.168.1.20:4

icmp 208.165.200.225:5 182.168.1.20:5

--- 208.165.200.225 182.168.1.20

Hits: 158 Misses: 18 Expired translations: 17

Dynamic mappings:

Gateway#

And shown below is the output of the ISP when we ping 208.165.200.225

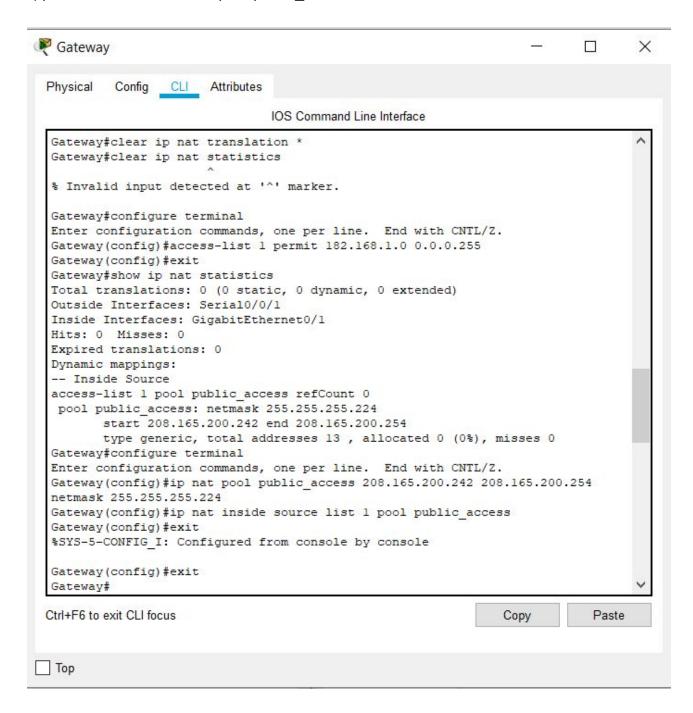
```
₽ PCA
                                                                                                                                         X
                                                                                                                                Physical
                  Config
                               Desktop
                                                               Attributes
                                             Programming
    Command Prompt
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
          Minimum = 1ms, Maximum = 16ms, Average = 4ms
      C:\>ping 182.31.7.1
      Pinging 182.31.7.1 with 32 bytes of data:
     Reply from 182.31.7.1: bytes=32 time=2ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
      Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
      Ping statistics for 182.31.7.1:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
          Minimum = 1ms, Maximum = 2ms, Average = 1ms
      C:\>telnet 182.31.7.1
      Trying 182.31.7.1 ...Open
      Unathorized access is strictly prohibited
      User Access Verification
      Password:
      ISP>enable
      ISP#ping 208.165.200.225
      Type escape sequence to abort.
      Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
      Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/10 ms
      ISP#
```



```
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
Unathorized access is strictly prohibited
User Access Verification
Password:
ISP>enable
Password:
ISP#ping 208.165.200.225
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/7/12 ms
ISP#ping 208.165.200.225
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
IIIII
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/8 ms
ISP#
```

TASK 3:

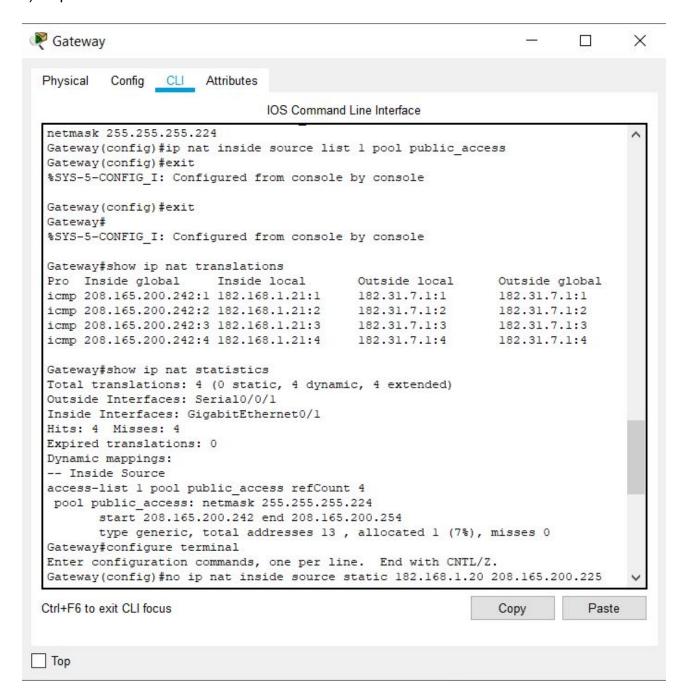
- 1)clear ip nat translation * clear ip nat statistics
- 2)access-list 1 permit 182.168.1.0 0.0.0.255
- 3)show ip nat statistics
- 4)ip nat pool public access 208.165.200.242 208.165.200.254 netmask 255.255.255.224
- 5)ip nat inside source list 1 pool public_access

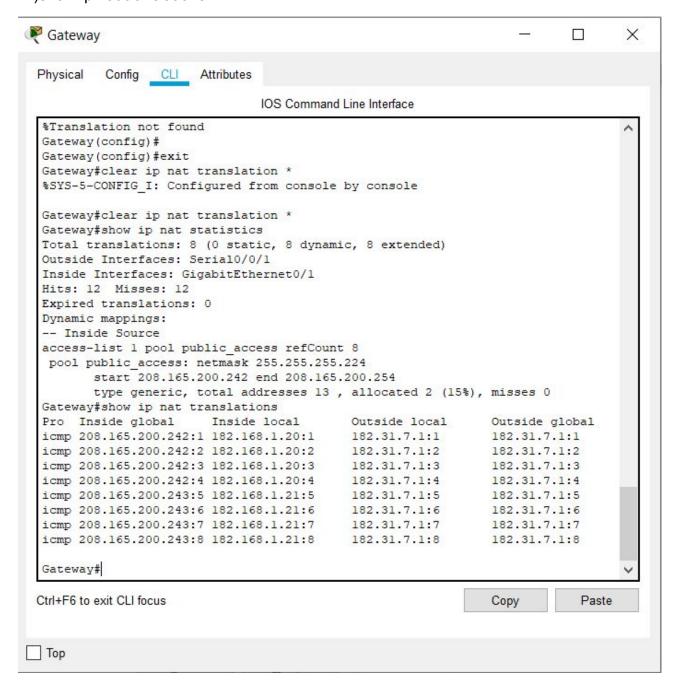


6)show ip nat translations

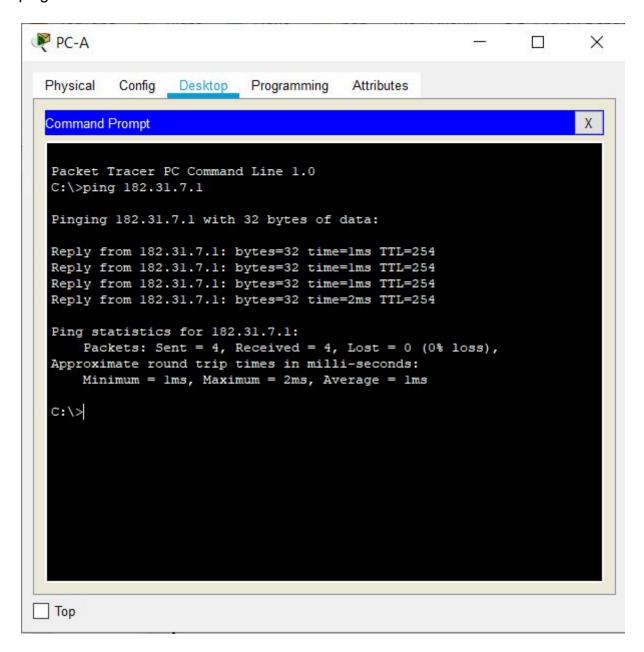
7) show ip nat statistics

8)no ip nat inside source static 182.168.1.20 208.165.200.225





ping 182.31.7.1 from PC-A:



ping 182.31.7.1 from PC-B:

