Experiment 12

Implementation of Network Address Translation using Packet Tracer

Name: Rahul Goel

Reg no: RA1911030010094

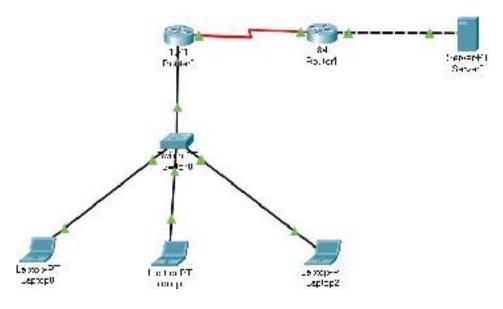
Aim:

To design a NAT on Cisco Packet Tracer.

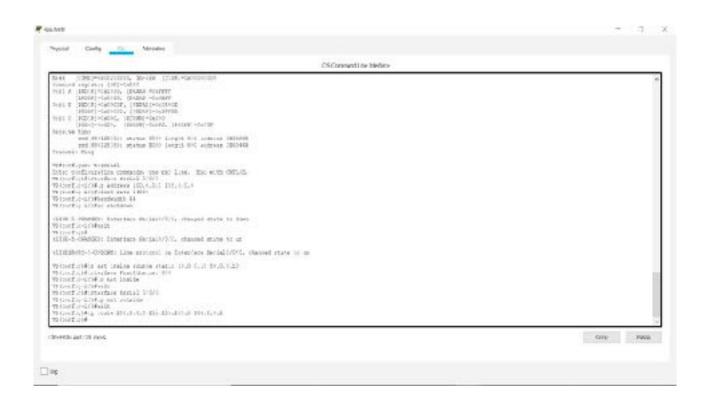
Procedure:

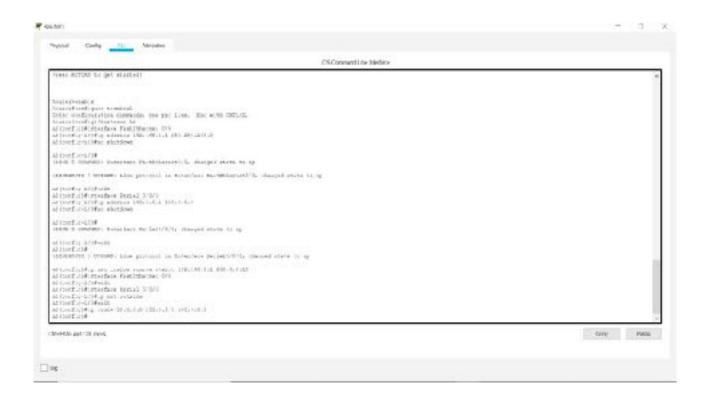
➤ Follow steps provided in the given document.

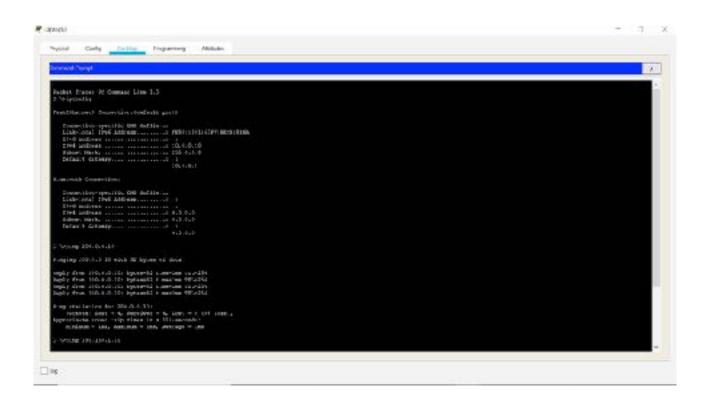
≻Diagram:

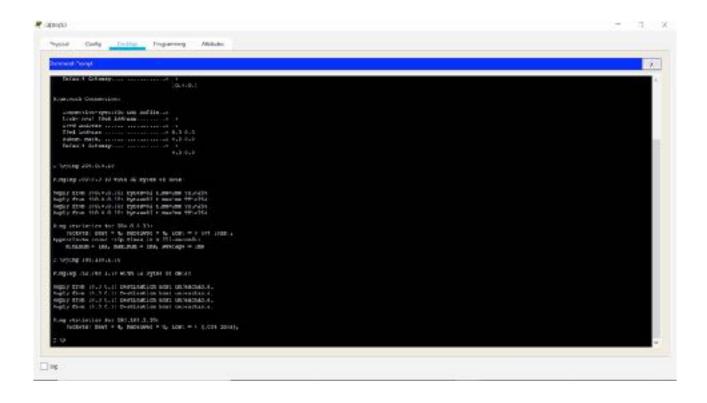


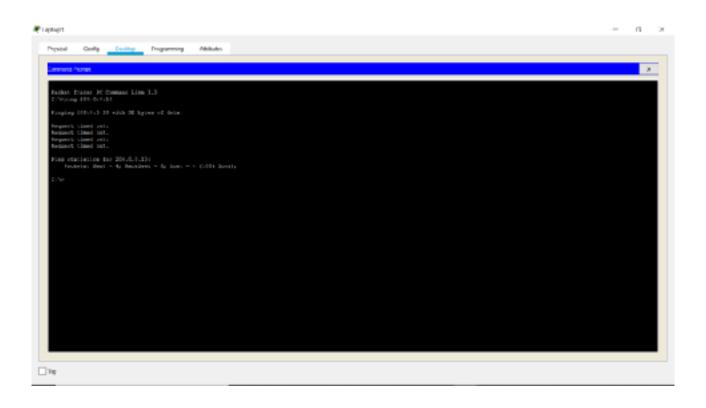


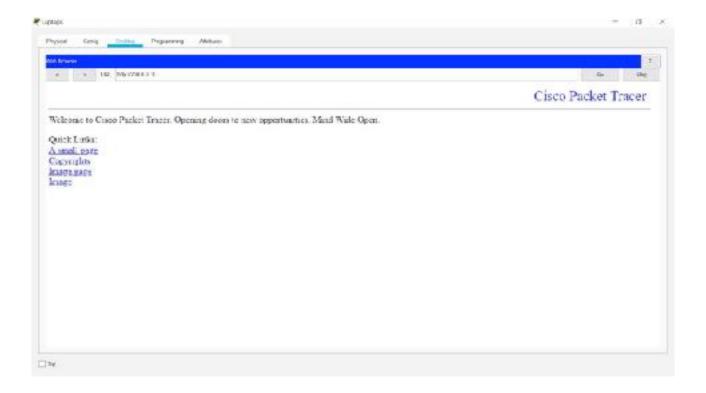


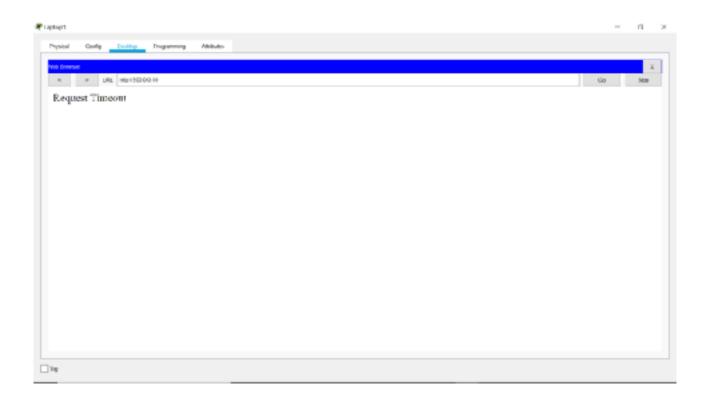












Exp 13: Configure VPN using Packet Tracer

Name: Rahul Goel

Reg No: RA1911030010094

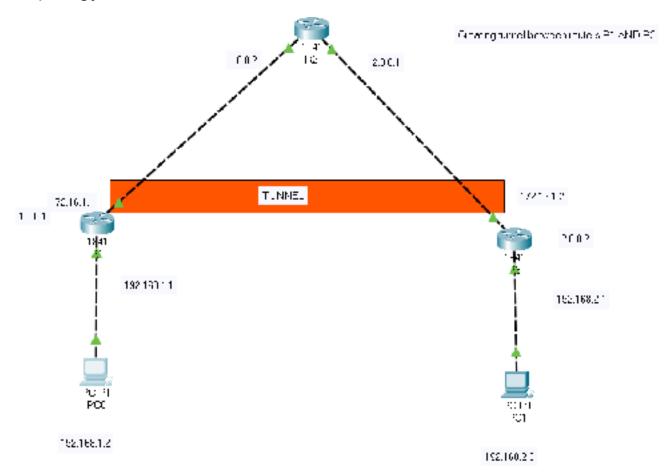
Aim:

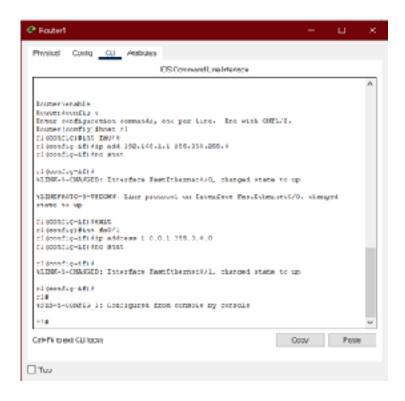
To design a NAT on Cisco Packet Tracer.

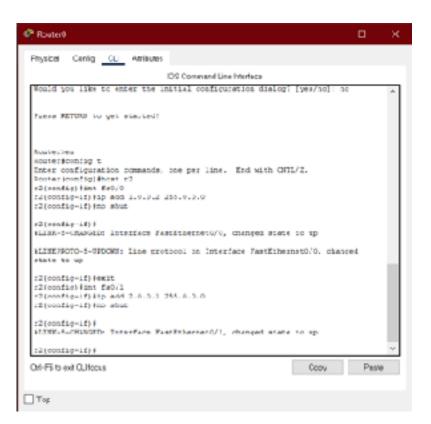
Procedure:

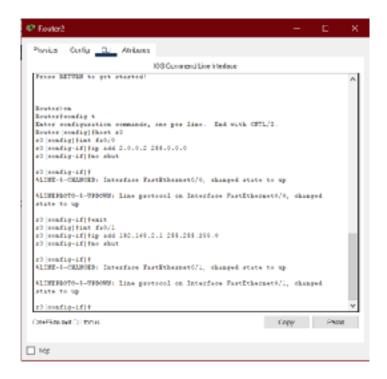
> Follow steps provided in the given document.

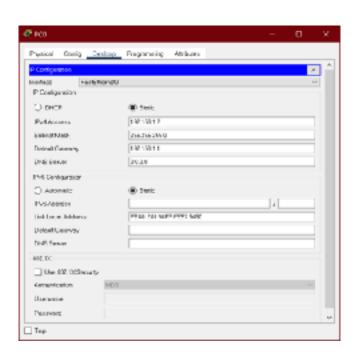
Topology:





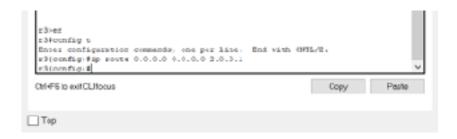


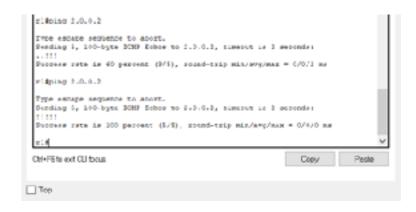


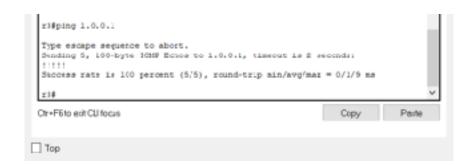


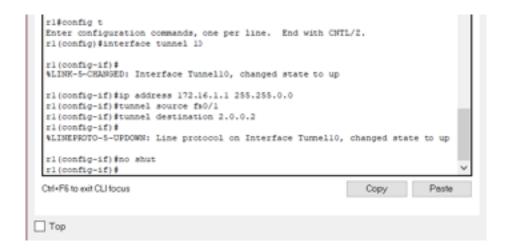












```
r3#config t
Finter continuous ton commands, one per line. Find with DRTL/X.
r3(config)finterface tunnel 100

r3(config)finterface tunnel 100, changed other to up

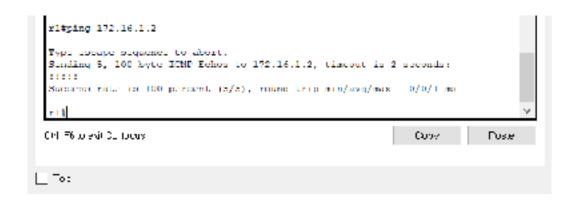
r3(config if)#ip address 172.16.1.2 255.255.0.0

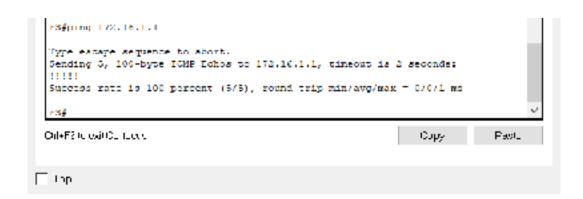
r3(config if)#ip address 172.16.1.2 255.255.0.0

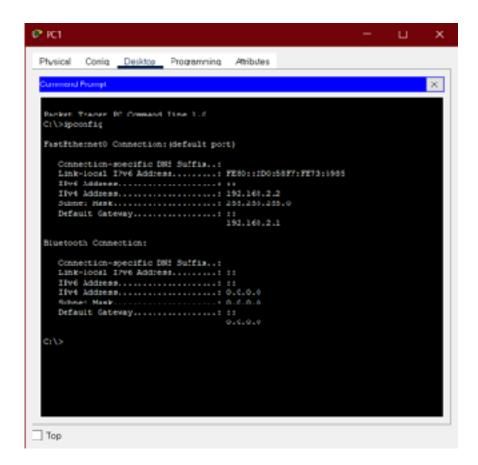
r3(config if)#tunnel source 140/0

r3(config if)#tunnel destination 1.0.0.1

r3(config if)#tunnel destination 1.0.0.1
```







```
C:\ping 192.160.1.2

Pinging 192.160.1.2 with 32 bytes of data:

Reply from 192.160.1.2: bytes=32 time<ims ITL=126

Ping statistics for 192.160.1.2:

Paccets: Seat = 4, Received = 4, Lost = ) (0% Loss),

Approximate round trip times in milli-seconds:

minimum = Ons, maximum = ims, Average = ims

C:\rtmacert 192.160.1.2

Inscing route to 192.160.1.2 over a maximum of 3) hope:

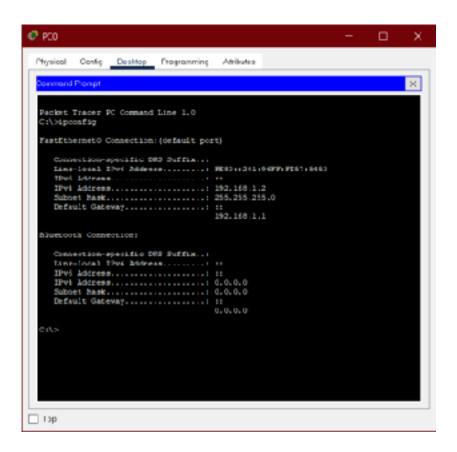
1 Ons Ons Ons Ons 192.160.1.1

2 Ons Ons Ons 192.160.1.1

Trace complete.

C:\oldots

Tops
```



```
Pinging 192.168.2.1 with 31 bytes of data:

Reply from 192.168.2.1: bytes=32 time<lms TTL=154
Re
```

```
rl#show interfaces Tunnel 10
   TunnellO is up, line protocol is up (connected)
     Mardware is Tunnel
     Internet address is 172.16.1.1/16
MTU 17916 bytes, BW 100 Kbit/sec, DLF 50000 usec,
     reliability 255/255, twload 1/255, reload 1/255
Encapsulation TUNNEL, loopback not set
     Respailive not set
     Tunnel source 1.0.0.1 (FastEthernetO/1), destination 2.0.0.2
     Tunnel protocol/transport OME/IF
Key disabled, sequencing disabled
        Checksumming of packets disabled
     Tunnel TTL 255
     Fast tunneling enabled
     Funnel transport MTU 1476 bytes
Funnel transmit bandwidth 5000 (kbps)
     Funnel receive bandwidth 8000 (kpps)
     Last input merer, output newsr, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 1
     Dueuming strategy: fifo
Dutput queue: 0/D (size/max)
        minute input rate 3 bits/sec, 3 packets/sec
                                                                                        Сору
                                                                                                         Paste
 CMI-F6 to exit CLI focus
Top
```

```
rafshow interface Tunnel 100
  Tammel100 is up, line protectl is up (connected)
     Hardware is Tunnel
    Internet sources is 173.16.1.3/16
MTU 17916 bytes, EW 100 Rbit/sec, DLY 50000 usec,
reliability 250/250, exload 1/250, exload 1/250
     Encapsulation TOBSEL, Loopback not set
     Respalive non sen-
     Tunnel source 2.0.0.2 (FastEthernet0/0), destination 1.0.0.1
     Tunnel protocol/transport GRE/IP
       Key disabled, segmenting disabled
Cheeksumming of puckets disabled
     Tonnel III 255
     Past tunneling enabled
     Tunnel transport MTD 1476 bytes
     Tunnel transmit bandwidth 8000 (kbpc)
     Tunnel receive bandwidth 0000 (kbps)
     Last input never, output never, output hang never
Last elearing of "show interface" counters never
Input queue: 0/75/6/0 (size/mex/drops/flushes): Total output drops: 1
     Ourseling strategy: Lilo
     Output queue: 0/0 (size/max)
     S minute imput rate 2 bits/arc, 8 parkets/arc
     Hore
 On Filmed 2 Moses
                                                                                 Say
                                                                                                 Di H-
```