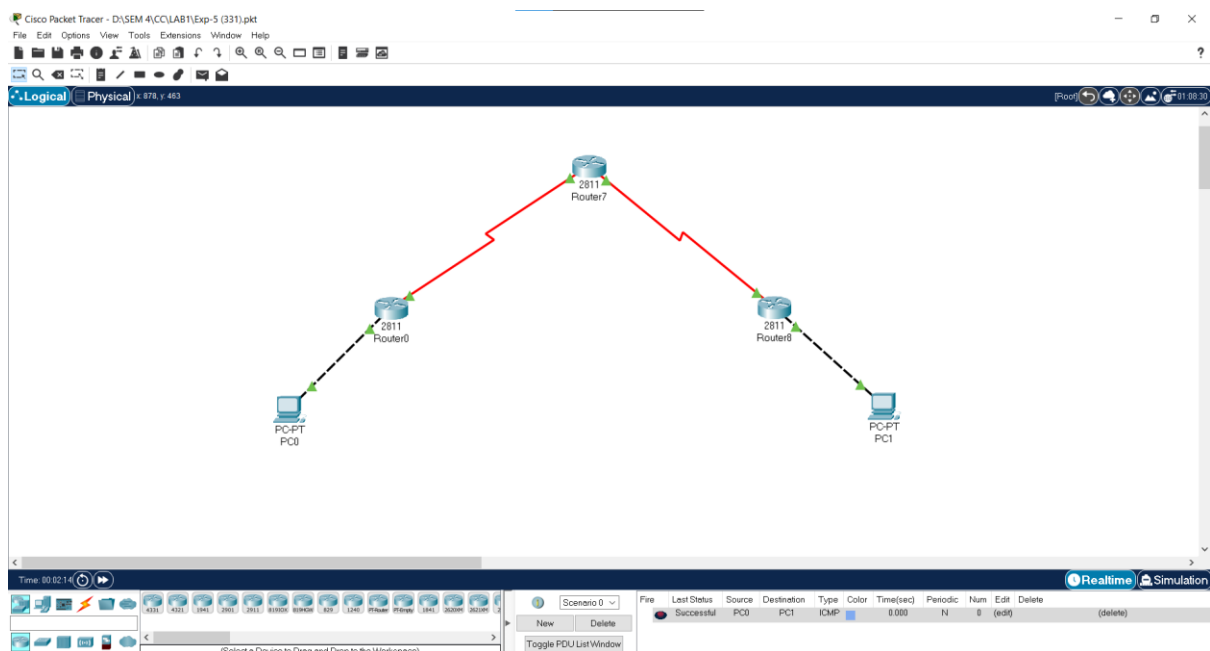18CSS202J Computer Communications

Excr: 5 Static-Default Route using 3 router and Stubbed Network configuration

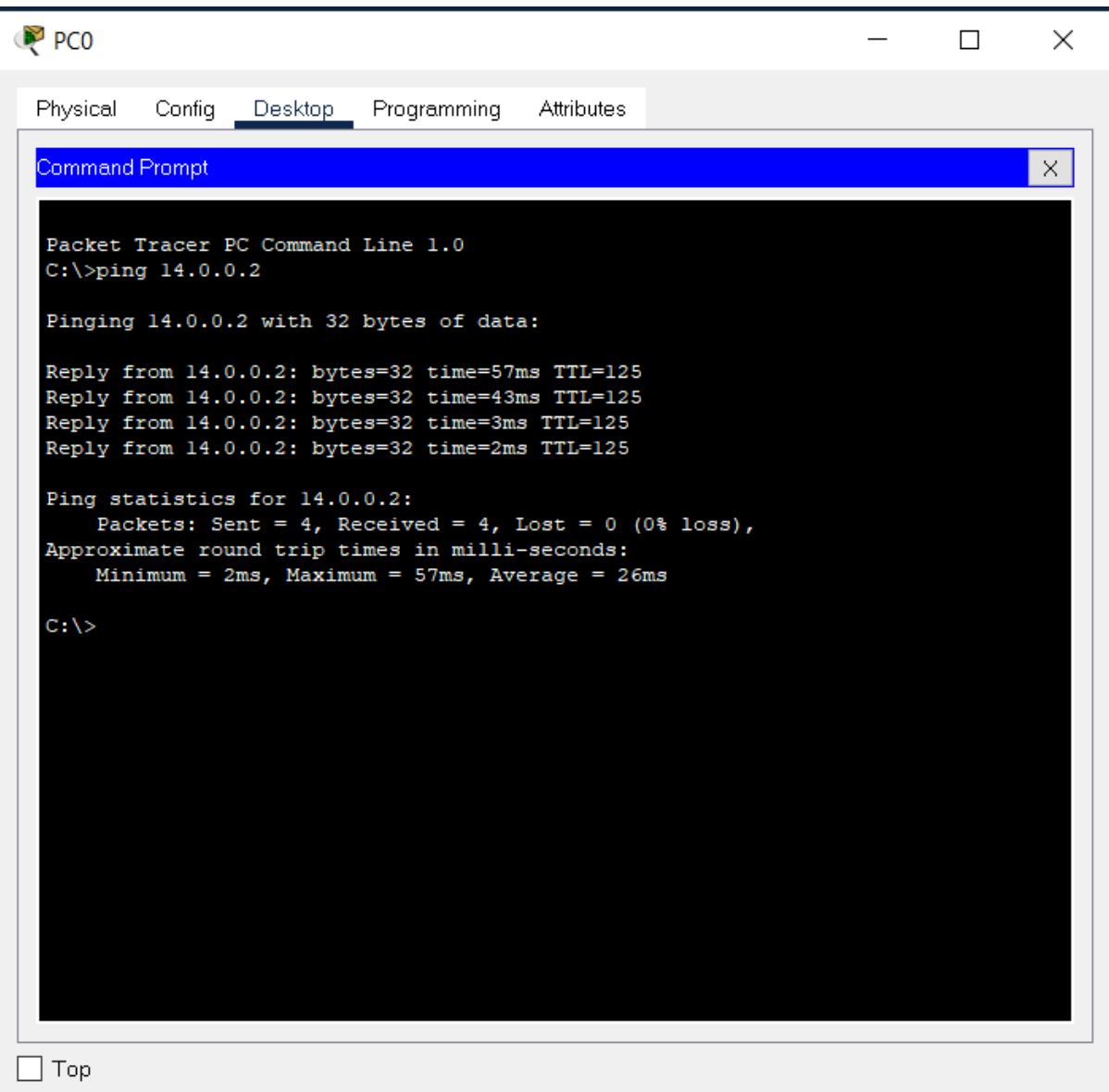Name :- Puneet Sharma

Reg. No. :- RA1911003010331

Class :-CSE F1

Output:-

```
PC0                                              —    □    ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt                                                          ✕

  Packet Tracer PC Command Line 1.0
  C:\>ping 14.0.0.2

  Pinging 14.0.0.2 with 32 bytes of data:

  Reply from 14.0.0.2: bytes=32 time=57ms TTL=125
  Reply from 14.0.0.2: bytes=32 time=43ms TTL=125
  Reply from 14.0.0.2: bytes=32 time=3ms TTL=125
  Reply from 14.0.0.2: bytes=32 time=2ms TTL=125

  Ping statistics for 14.0.0.2:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = 2ms, Maximum = 57ms, Average = 26ms

  C:\>

□ Top
```

Solution of subnetting problem

192.168.10.15/18
Ip address   A=54 , B=42 ,   C=12

Network address: 192.168.10.15 ➔ 11000000. 10101000. 00001010. 00001111
                       /18   ➔ 11111111. 11111111 . 11000000 .00000000
                                    AND subnet mask 255.255.192.0
……………………………………………………………………………………………………
                                 ➔ 11000000.10101000.00000000.00000000
                                 ➔   192.168.0.0/18

A= 54+2 = 56   ~   2^6 = 64   ➔   192.168.0.0/26
B= 42+2 = 44   ~   2^6 = 64   ➔   192.168.0.64/26
C= 12+2 = 14   ~   2^4 = 16   ➔   192.168.0.128/28

11000000. 10101000. 00000000. 00000000 = 192.168.0.0/26
11000000. 10101000. 00000000. 01000000 =   192.168.0.64/26
11000000. 10101000. 00000000. 10000000 =   192.168.0.128/26
11000000. 10101000. 00000000. 11000000 =   192.168.0.192/26

192.168.0.128/26 ➔

11000000. 10101000. 00000000. 10000000 =   192.168.0.128/28