CS 372

Programming Project - Traceroute

Dylan Mitchel Karambut

Karambud@oregonstate.edu

To run this application, `root` access might be required

Once `root` access is obtained, to run this application use the command

`$ python3 IcmpHelperLibrary.py`

On the screenshot, the are some `Request timed out.` Presumably because I am using mobile hotspot and the connection might have had some trouble.

```
[root@trashbook-pro-15 project2]# python3 IcmpHelperLibrary.py
Over Maximum of 30 Hops!
Where the TTL is the Hop Number
Pinging (oregonstate.edu) 52.27.33.250
  TTL=1    RTT=18 ms    Type=11    Code=0    192.168.85.150
Pinging (oregonstate.edu) 52.27.33.250
  TTL=2    RTT=96 ms    Type=11    Code=0    66.174.25.196
Pinging (oregonstate.edu) 52.27.33.250
  TTL=3    RTT=263 ms    Type=11    Code=0    69.83.159.64
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  TTL=5    RTT=35 ms    Type=11    Code=0    69.83.158.51
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  TTL=7    RTT=40 ms    Type=11    Code=0    69.83.144.112
Pinging (oregonstate.edu) 52.27.33.250
  TTL=8    RTT=37 ms    Type=11    Code=0    69.83.144.102
Pinging (oregonstate.edu) 52.27.33.250
  TTL=9    RTT=39 ms    Type=11    Code=0    69.83.144.103
Pinging (oregonstate.edu) 52.27.33.250
  TTL=10   RTT=55 ms    Type=11    Code=0    140.222.238.83
Pinging (oregonstate.edu) 52.27.33.250
  TTL=11   RTT=46 ms    Type=11    Code=0    157.130.180.14
Pinging (oregonstate.edu) 52.27.33.250
  TTL=12   RTT=46 ms    Type=11    Code=0    150.222.214.115
Pinging (oregonstate.edu) 52.27.33.250
  TTL=13   RTT=45 ms    Type=11    Code=0    52.95.53.11
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  TTL=21   RTT=54 ms    Type=11    Code=0    108.166.240.9
Pinging (oregonstate.edu) 52.27.33.250
  TTL=22   RTT=51 ms    Type=11    Code=0    108.166.240.19
Pinging (oregonstate.edu) 52.27.33.250
  TTL=23   RTT=51 ms    Type=11    Code=0    108.166.240.14
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
  *       *       *       *       *    Request timed out.
  *       *       *       *       *    Request timed out (By Exception).
Pinging (oregonstate.edu) 52.27.33.250
```

```
[root@trashbook-pro-15 project2]# python3 IcmpHelperLibrary.py
Over Maximum of 30 Hops!
Where the TTL is the Hop Number
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=1     RTT=124 ms    Type=11    Code=0     192.168.85.150
Pinging (oliviarodrigo.com) 192.230.66.56
   TTL=2     RTT=423 ms    Type=11    Code=0     66.174.25.196
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=3     RTT=44 ms     Type=11    Code=0     69.83.159.66
Pinging (oliviarodrigo.com) 192.230.66.56
   *       *       *       *       *     Request timed out.
   *       *       *       *       *     Request timed out (By Exception).
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=5     RTT=42 ms     Type=11    Code=0     69.83.158.51
Pinging (oliviarodrigo.com) 192.230.66.56
   *       *       *       *       *     Request timed out.
   *       *       *       *       *     Request timed out (By Exception).
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=7     RTT=38 ms     Type=11    Code=0     69.83.144.112
Pinging (oliviarodrigo.com) 192.230.66.56
   TTL=8     RTT=34 ms     Type=11    Code=0     69.83.144.102
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=9     RTT=36 ms     Type=11    Code=0     69.83.144.103
Pinging (oliviarodrigo.com) 192.230.66.56
   TTL=10    RTT=30 ms     Type=11    Code=0     140.222.0.239
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=11    RTT=54 ms     Type=11    Code=0     157.130.186.118
Pinging (oliviarodrigo.com) 192.230.66.56
   *       *       *       *       *     Request timed out.
   *       *       *       *       *     Request timed out (By Exception).
Pinging (oliviarodrigo.com) 185.11.125.56
   TTL=13    RTT=219 ms    Type=11    Code=0     217.163.132.187
Pinging (oliviarodrigo.com) 192.230.66.56
   TTL=14    RTT=77 ms     Type=0     Code=0         Identifier=45781    Sequence Number=14    192.230.66.56
[root@trashbook-pro-15 project2]#
```

```
[root@trashbook-pro-15 project2]# python3 IcmpHelperLibrary.py
Over Maximum of 30 Hops!
Where the TTL is the Hop Number
Pinging (209.233.126.254) 209.233.126.254
   TTL=1    RTT=15 ms    Type=11    Code=0      192.168.85.150
Pinging (209.233.126.254) 209.233.126.254
   TTL=2    RTT=80 ms    Type=11    Code=0      66.174.25.196
Pinging (209.233.126.254) 209.233.126.254
   TTL=3    RTT=40 ms    Type=11    Code=0      69.83.159.66
Pinging (209.233.126.254) 209.233.126.254
      *       *       *       *       *     Request timed out.
      *       *       *       *       *     Request timed out (By Exception).
Pinging (209.233.126.254) 209.233.126.254
   TTL=5    RTT=89 ms    Type=11    Code=0      69.83.158.51
Pinging (209.233.126.254) 209.233.126.254
      *       *       *       *       *     Request timed out.
      *       *       *       *       *     Request timed out (By Exception).
Pinging (209.233.126.254) 209.233.126.254
   TTL=7    RTT=53 ms    Type=11    Code=0      69.83.144.112
Pinging (209.233.126.254) 209.233.126.254
   TTL=8    RTT=59 ms    Type=11    Code=0      69.83.144.102
Pinging (209.233.126.254) 209.233.126.254
   TTL=9    RTT=29 ms    Type=11    Code=0      69.83.144.103
Pinging (209.233.126.254) 209.233.126.254
   TTL=10   RTT=39 ms    Type=11    Code=0      140.222.0.241
Pinging (209.233.126.254) 209.233.126.254
   TTL=11   RTT=51 ms    Type=11    Code=0      192.205.33.125
Pinging (209.233.126.254) 209.233.126.254
   TTL=12   RTT=54 ms    Type=11    Code=0      12.122.158.134
Pinging (209.233.126.254) 209.233.126.254
   TTL=13   RTT=78 ms    Type=11    Code=0      12.122.158.185
Pinging (209.233.126.254) 209.233.126.254
   TTL=14   RTT=54 ms    Type=11    Code=0      12.122.30.141
Pinging (209.233.126.254) 209.233.126.254
   TTL=15   RTT=60 ms    Type=11    Code=0      12.122.28.178
Pinging (209.233.126.254) 209.233.126.254
   TTL=16   RTT=59 ms    Type=11    Code=0      12.122.2.77
Pinging (209.233.126.254) 209.233.126.254
   TTL=17   RTT=106 ms   Type=11    Code=0      12.122.160.137
Pinging (209.233.126.254) 209.233.126.254
   TTL=18   RTT=58 ms    Type=0     Code=0         Identifier=58644    Sequence Number=18    209.233.126.254
[root@trashbook-pro-15 project2]#
```

```
[root@trashbook-pro-15 project2]# python3 IcmpHelperLibrary.py
Over Maximum of 30 Hops!
Where the TTL is the Hop Number
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=1     RTT=13 ms    Type=11    Code=0      192.168.85.150
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=2     RTT=45 ms    Type=11    Code=0      66.174.25.196
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=3     RTT=35 ms    Type=11    Code=0      69.83.159.66
Pinging (gaia.cs.umass.edu) 128.119.245.12
   *       *       *       *       *      Request timed out.
   *       *       *       *       *      Request timed out (By Exception).
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=5     RTT=78 ms    Type=11    Code=0      69.83.158.51
Pinging (gaia.cs.umass.edu) 128.119.245.12
   *       *       *       *       *      Request timed out.
   *       *       *       *       *      Request timed out (By Exception).
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=7     RTT=81 ms    Type=11    Code=0      69.83.144.112
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=8     RTT=59 ms    Type=11    Code=0      69.83.144.102
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=9     RTT=32 ms    Type=11    Code=0      69.83.144.103
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=10    RTT=54 ms    Type=11    Code=0      140.222.233.33
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=11    RTT=110 ms   Type=11    Code=0      157.130.180.86
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=12    RTT=45 ms    Type=11    Code=0      96.110.39.225
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=13    RTT=45 ms    Type=11    Code=0      96.110.47.202
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=14    RTT=64 ms    Type=11    Code=0      96.110.36.213
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=15    RTT=139 ms   Type=11    Code=0      96.110.37.201
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=16    RTT=76 ms    Type=11    Code=0      96.110.37.250
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=17    RTT=69 ms    Type=11    Code=0      96.110.39.2
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=18    RTT=90 ms    Type=11    Code=0      96.110.39.121
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=19    RTT=72 ms    Type=11    Code=0      96.110.39.74
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=20    RTT=280 ms   Type=11    Code=0      96.110.37.145
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=21    RTT=86 ms    Type=11    Code=0      96.110.35.9
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=22    RTT=84 ms    Type=11    Code=0      96.110.35.26
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=23    RTT=107 ms   Type=11    Code=0      96.110.38.66
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=24    RTT=122 ms   Type=11    Code=0      96.110.35.117
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=25    RTT=123 ms   Type=11    Code=0      96.110.42.6
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=26    RTT=110 ms   Type=11    Code=0      162.151.53.214
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=27    RTT=114 ms   Type=11    Code=0      96.108.44.226
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=28    RTT=111 ms   Type=11    Code=0      50.222.38.42
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=29    RTT=176 ms   Type=11    Code=0      192.80.83.109
Pinging (gaia.cs.umass.edu) 128.119.245.12
   TTL=30    RTT=119 ms   Type=11    Code=0      128.119.0.8
[root@trashbook-pro-15 project2]#
```