

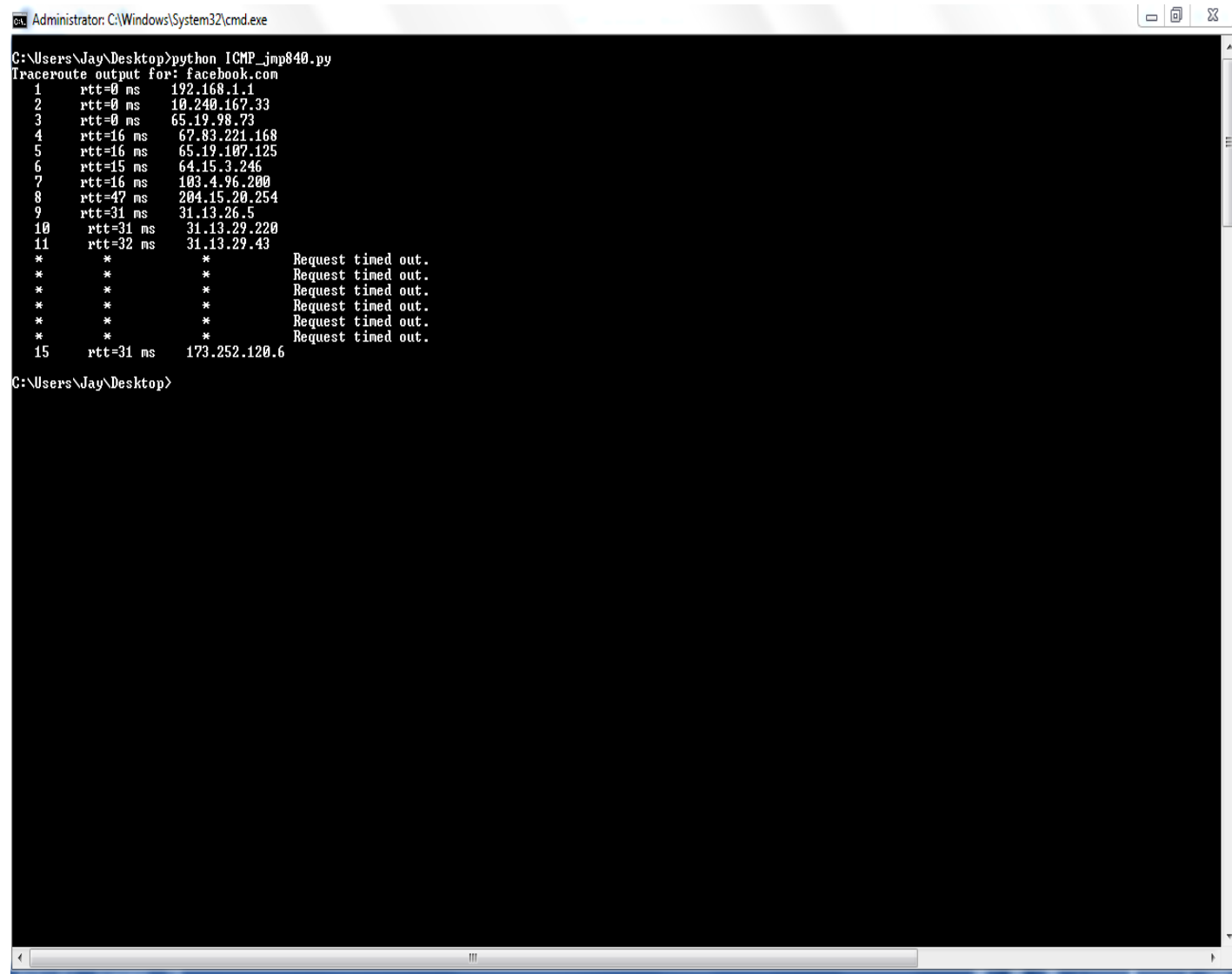
Socket Programming Assignment 4: ICMP Traceroute Lab

To run this ICMP traceroute open command prompt in administrator mode. Also disable any firewall running on the system. After doing above step type in command as following:

```
python ICMP_jmp840.py
```

Output generated by the attached program for different hosts is shown in the screenshots below:

Facebook.com



```
Administrator: C:\Windows\System32\cmd.exe
C:\Users\Jay\Desktop>python ICMP_jmp840.py
Traceroute output for: facebook.com
 1  rtt=0 ms  192.168.1.1
 2  rtt=0 ms  10.240.167.33
 3  rtt=0 ms  65.19.98.73
 4  rtt=16 ms 67.83.221.168
 5  rtt=16 ms 65.19.107.125
 6  rtt=15 ms 64.15.3.246
 7  rtt=16 ms 103.4.96.200
 8  rtt=47 ms 204.15.20.254
 9  rtt=31 ms 31.13.26.5
10  rtt=31 ms 31.13.29.220
11  rtt=32 ms 31.13.29.43
*   *   *   Request timed out.
*   *   *   Request timed out.
*   *   *   Request timed out.
*   *   *   Request timed out.
*   *   *   Request timed out.
*   *   *   Request timed out.
15  rtt=31 ms 173.252.120.6
C:\Users\Jay\Desktop>
```

Yahoo.com

```
Administrator: C:\Windows\System32\cmd.exe
C:\Users\Jay\Desktop>python ICMP_jmp840.py
Traceroute output for: yahoo.com
 1  rtt=0 ms 192.168.1.1
 2  rtt=15 ms 10.240.167.33
 3  rtt=0 ms 65.19.98.65
 4  rtt=16 ms 67.83.221.166
 5  rtt=15 ms 65.19.99.125
 6  rtt=16 ms 64.15.0.218
 7  rtt=15 ms 198.32.160.121
 8  rtt=32 ms 216.115.96.65
 9  rtt=31 ms 216.115.100.31
10  rtt=15 ms 98.139.130.15
11  rtt=16 ms 98.139.128.67
12  rtt=31 ms 98.139.130.3
13  rtt=16 ms 98.139.183.24

C:\Users\Jay\Desktop>
```

Twitter.com

```
Administrator: C:\Windows\System32\cmd.exe
C:\Users\Jay\Desktop>python ICMP_jmp840.py
Traceroute output for: twitter.com
 1  rtt=0 ms 192.168.1.1
 2  rtt=0 ms 10.240.167.33
 3  rtt=0 ms 65.19.98.73
 4  rtt=31 ms 67.83.221.170
 5  rtt=0 ms 65.19.99.117
 6  rtt=15 ms 64.15.0.218
 7  rtt=16 ms 198.32.160.56
 8  rtt=31 ms 192.133.76.21
 9  rtt=47 ms 199.16.156.230

C:\Users\Jay\Desktop>
```

Google.com

```
Administrator: C:\Windows\System32\cmd.exe
C:\Users\Jay\Desktop>python ICMP_jmp840.py
Traceroute output for: google.com
 1    rtt=2 ms    192.168.1.1
 2    rtt=15 ms   10.240.167.33
 3    rtt=17 ms   65.19.98.65
 4    rtt=17 ms   67.83.221.166
 5    rtt=15 ms   64.15.5.194
 6    rtt=20 ms   167.206.252.247

C:\Users\Jay\Desktop>
```