Screenshots

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Part 1: UDP

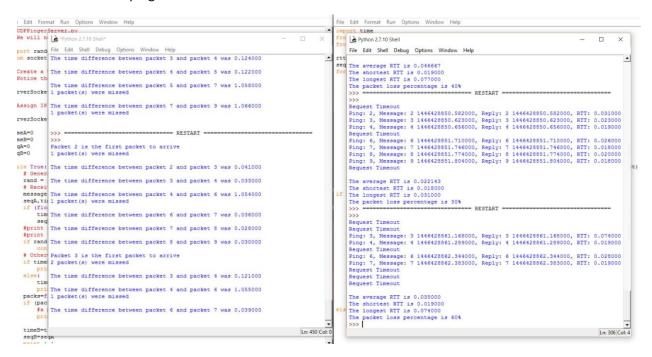
Q1

The client ping program output.

```
>>>
Ping: 1, Message: Ping 1 1446424646s, Reply: PING 1 1446424646s, RTT: 0.000000
Ping: 2, Message: Ping 2 1446424646s, Reply: PING 2 1446424646s, RTT: 0.000000
Request Timeout
Ping: 4, Message: Ping 4 1446424647s, Reply: PING 4 1446424647s, RTT: 0.000000
Ping: 5, Message: Ping 5 1446424647s, Reply: PING 5 1446424647S, RTT: 0.000000
Ping: 6, Message: Ping 6 1446424647s, Reply: PING 6 1446424647s, RTT: 0.000000
Ping: 7, Message: Ping 7 1446424647s, Reply: PING 7 1446424647S, RTT: 0.001000
Ping: 8, Message: Ping 8 1446424647s, Reply: PING 8 1446424647s, RTT: 0.000000
Request Timeout
Ping: 10, Message: Ping 10 1446424648s, Reply: PING 10 1446424648S, RTT: 0.00100
The average RTT is 0.000250
The shortest RTT is 0.000000
The longest RTT is 0.001000
The packet loss percentage is 20%
>>>
                                                                       Ln: 54 Col: 4
```

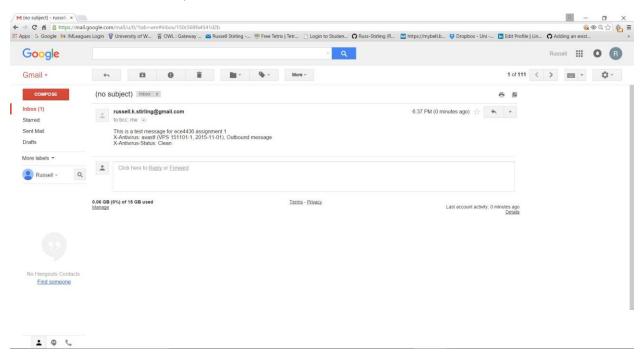
Q2

The client and server heartbeat program output. Note the lab provided little specification so I assumed it was a slight variation on ping that told the server to check for the time difference and sequence numbers between pings.



Part 2: SMTP

The email which arrived in my inbox.

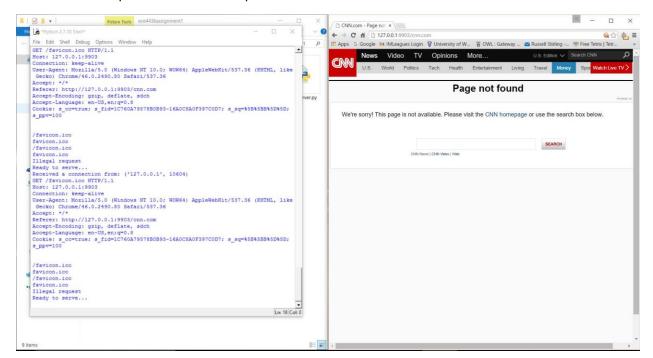


The shell output for the email client.

```
Python 2.7.10 Shell
 File Edit Shell Debug Options Window Help
 FROM: russell.k.stirling@gmail.com
250 2.1.0 OK y15sm6891165ioi.44 - gsmtp
                                                      == RESTART ==
 >>> 220 smtp.gmail.com ESMTP ul2sm5061073igr.22 - gsmtp
 250 smtp.gmail.com at your service
220 2.0.0 Ready to start TLS
334 VXN1cm5hbWU6
 Email Address: russell.k.stirling@gmail.com
334 UGFzc3dvcmQ6
Warning (from warnings module):
File "C:\Python27\lin\perpass.py", line 92
return fallhed; getpass(prompt, stream)
GetFassWarning: Can not control echo on the terminal.
Warning: Fassword:
Fassword:
235 2.7.0 Accepted
 TO: russell.k.stirling@gmail.com
250 2.1.5 OK ul2sm5061073igr.22 - gsmtp
DATA
 354 Go ahead u12sm5061073igr.22 - gsmtp
 Enter message: This is a test message for ece4436 assignment 1 250 2.0.0 OK 1446421069 u12sm5061073igr.22 - gsmtp
QUIT
221 2.0.0 closing connection ul2sm5061073igr.22 - gsmtp
```

Part 3: HTTP Web Proxy Server

The shell and output at first site attempt of cnn.com.



The shell and output at a successfully loaded webpage.

