

Basic logic structure for assignment 1:

First the program arguments are parsed to get the host, ip, port number and the time if given. Once all those items are parsed out, depending on if the -h option was given, either we send a head or get a request. We send the message then for both types we receive the header 1 byte at a time and for each line of the response, we check the contents of each line to check if we have the content length or if it's the first line. In each of those cases we extract the necessary info we need such as the status code and content length. Once the header has been completely received, then if we have a Get request we then receive upto content length bytes while writing them to output.dat. If we have a head request then we simply print out the header to stdout.

Test cases used:

```
./bin/myweb www.neverssl.com 13.35.121.94:80

./bin/myweb ssrc-nas-1.soe.ucsc.edu 128.114.52.55:8080/

./bin/myweb google.com 132.251.32.46:80

./bin/myweb softwareqatest.com 216.92.49.183

./bin/myweb www.testingmcafeesites.com 23.45.205.250:80

all the above also done with -h
```