Charlie Say OSUID: 934377368 CS 372 - Intro Networks Project 1

Instructions on running program:

- Download the python files into a directory
- Open terminal
- Navigate to directory where python files are located
- Run python files
- Command: python file_name.py (they are python3 files)

* Part 1

```
[Running] python -u "c:\Users\charl\OneDrive\CURRENT TERM\CS 372 Intro Comp Networks\projourned paddress of gaia.cs.umass.edu is 128.119.245.12

Socket connected to gaia.cs.umass.edu on IP: 128.119.245.12

Message send successfully

HTTP/1.1 200 OK

Date: Thu, 14 Oct 2021 06:33:25 GMT

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.24 mod_perl/2.0.11 Perl/v5.16.3

Last-Modified: Thu, 14 Oct 2021 05:59:01 GMT

ETag: "51-5ce49c67c99a1"

Accept-Ranges: bytes

Content-Length: 81

Content-Type: text/html; charset=UTF-8

<hr/>
<html>
Congratulations! You've downloaded the first Wireshark lab file!
</html>

[Done] exited with code=0 in 0.413 seconds
```

SCREENSHOT 01

```
[Running] python -u "c:\Users\charl\OneDrive\CURRENT TERM\CS 372 Intro Comp Networks\project(
IP address of gaia.cs.umass.edu is 128.119.245.12
Socket connected to gaia.cs.umass.edu on IP: 128.119.245.12
Message send successfully
Request: GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
Host: gaia.cs.umass.edu
HTTP/1.1 200 OK
Date: Thu, 14 Oct 2021 07:47:37 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.24 mod perl/2.0.11 Perl/v5.16.3
Last-Modified: Thu, 14 Oct 2021 05:59:01 GMT
ETag: "1194-5ce49c67c7e48"
Accept-Ranges: bytes
Content-Length: 4500
Content-Type: text/html; charset=UTF-8
<html><head>-
<title>Historical Documents: THE BILL OF RIGHTS</title></head>
```

SCREENSHOT 02

- * Part 3 output instructions:
 - Run the file http_server.py in terminal
 - Open a web browser
 - In the navigation bar, enter: 127.0.0.1:1337
 - Once it is connected, the output will appear on the web page as well as the terminal

SCREENSHOT 01



Congratulations! You've downloaded the first Wireshark lab file!

SCREENSHOT 02

COMMENTS:

In my python files, it may seem like I overused comments and I think I did, but it was intentional. I wasn't sure on the metrics of what makes a well documented file compared to a poor one in this course. I also added a few error checks when connecting to sockets and I'm aware it does make the files seem a bit cluttered, but I wanted to get in the habit of good coding practices. I apologize in advance if the files are hard to read. Overall, this was a great coding project!