

Assignment 1 Web Proxy Report

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Due Date: Saturday, February 12, 2022

Evidences/Codes/References:

- Socket Programming in Python (Guide)
<https://realpython.com/python-sockets/#running-the-application-client-and-server>
- Socket Programming HOWTO
<https://docs.python.org/2.7/howto/sockets.html?highlight=socket>
- Python File readlines() Method
https://www.tutorialspoint.com/python/file_readlines.htm

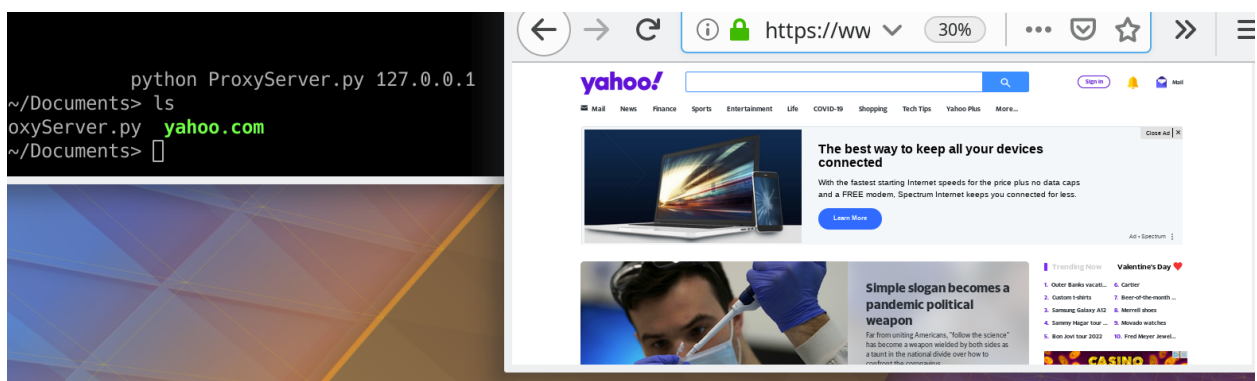
Execution Sample:

- 1) Connection to yahoo.com using host 127.0.0.1:8888

```
student@linux-40ae:~/Documents> python ProxyServer.py 127.0.0.1
Ready to serve...
('Received a connection from:', ('127.0.0.1', 44286))
GET /yahoo.com HTTP/1.1
Host: 127.0.0.1:8888
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Upgrade-Insecure-Requests: 1

/yahoo.com
yahoo.com
/yahoo.com
```

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Instructions:

- 1) Open the command prompt and run the proxy server program.
- 2) Request a web page from the browser (eg. yahoo.com) using host 127.0.0.1:8888;
as: 127.0.0.1:8888/yahoo.com
- 3) The program will output the response from the web page.