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Project 1 - Sockets and HTTP

Using a socket to GET a file

- a. Once you save the file locally, open a terminal window. Navigate to the folder the file is located in and enter the command "python SKT GET.py"
- b. Screenshot: (sources are cited inline, in code)

```
PROBLEMS OUTPUT PORTS DEBUG CONSOLE TERMINAL

PS C:\Users\Khrys\OneDrive\School\CS 372\Project_1> & C:\Users\Khrys\AppData/Local/Programs/Python/Python311/py
Request: GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Host: gaia.cs.umass.edu

[RECV] - length: 382
HTTP/1.1 200 OK
Date: Thu, 19 Oct 2023 03:55:59 GMT
Server: Apache/2.4.6 (CentOS) OpenSsL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Wed, 18 Oct 2023 05:59:01 GMT
ETag: "51-607f75605a268"
Accept-Ranges: bytes
Content-Length: 81
Content-Length: 81
Content-Type: text/html; charset=UTF-8

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

PS C:\Users\Khrys\OneDrive\School\CS 372\Project_1>
```

c. Only question – I manually had to add print lines to my code to print the request and response so that the outcome is like the example in the assignment. Is there an easier way to do this?

GET the data for a large file

a. Once you save the file locally, open a terminal window. Navigate to the folder the file is located in and enter the command "python SKT Bigger GET.py"

b. Screenshot: (sources are cited inline, in code)

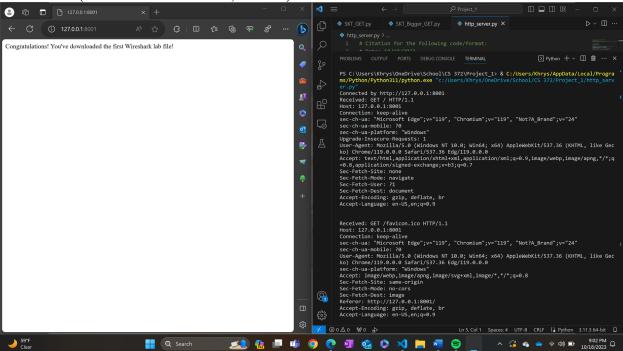


c. The logic of the while statement was pretty tricky, and took a couple of searches. Is information from stackoverflow okay in the future, so long as we cite it?

The world's simplest HTTP server

a. Once you save the file locally, open a terminal window. Navigate to the folder the file is located in and enter the command "python http server.py"

b. Screenshot: (sources are cited inline, in code)



c. No comments. This part was pretty straight forward.