Name: Katie Schaumleffle

Project 1 - Sockets and HTTP

Using a socket to GET a file

Include instructions on how to run your programs. Are they python3?

My code was written in Python3. To run the code, download the connectSocket.py file. Open your IDE (I use VS Code) and open the terminal. Once in the terminal, go into the directory where the file is saved. You can run the program by typing “python connectSocket.py” and hitting enter.

Include screenshots of your running code.

Text

Description automatically generated

Include comments / questions (optional)

The most difficult aspect of this part of the assignment was finding different resources to get my code to work properly. I found <https://zetcode.com/python/socket/>, the textbook (Computer Networking; A Top Down Approach), and <https://docs.python.org/3/howto/sockets.html> to be the most helpful resources.

GET the data for a large file

Include instructions on how to run your programs. Are they python3?

Similar to the previous file, this code was also written in Python3. To run the code, download the largeFile.py file. Open your IDE (I use VS Code) and open the terminal. Once in the terminal, go into the directory where the file is saved. You can run the program by typing “python largeFile.py” and hitting enter. Make sure you are in the correct directory, where this file is saved.

Include screenshots of your running code.

Text

Description automatically generated

Text

Description automatically generated

The world’s simplest HTTP server

Include instructions on how to run your programs. Are they python3?

Just like the last two files, this code was also written in Python3. To run the code, download the http\_server.py file. Open your IDE (I use VS Code) and open the terminal. Once in the terminal, go into the directory where the file is saved. You can run the program by typing “python http\_server.py” and hitting enter.

Once you run the program in the terminal, go to your web browser and navigate to 127.0.0.1:1385. You should see the message “Congratulations! You’ve downloaded the first Wireshark lab file!”

You can then return to the terminal and the “Connected by”, “Received”, and “Sending” data should be displayed in the terminal window.

Include screenshots of your running code.

Graphical user interface, text, application, email, website

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence