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CS 372 Project 1

Sockets and HTTP

1.
  - a. In order to run my programs, I used Visual Studio Code and simply hit run, my programs can also be ran using Python3 as well if necessary.

My connect\_socket.py program:

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  5: Python Debug Consc v + [ ] [ ] ^ x

C:\Users\Gretel Rajamoney\Desktop> cmd /C "C:\Python38\python.exe "c:\Users\Gretel Rajamoney\.vscode\extensions\ms-python.python-2021.3.680753044\pythonFiles\lib\python\debugpy\launcher" 53331 -- "c:\Users\Gretel Rajamoney\Desktop\connect_socket.py" "
Request: GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Host: gaia.cs.umass.edu

HTTP/1.1 200 OK
Date: Tue, 20 Apr 2021 04:45:07 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.14 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Mon, 19 Apr 2021 05:59:01 GMT
ETag: "51-5c04d06c22251"
Accept-Ranges: bytes
Content-Length: 81
Content-Type: text/html; charset=UTF-8

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

b.

My lab2.py program first few lines:

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  5: Python Debug Consc v + [ ] [ ] ^ x

C:\Users\Gretel Rajamoney\Desktop> cmd /C "C:\Python38\python.exe "c:\Users\Gretel Rajamoney\.vscode\extensions\ms-python.python-2021.3.680753044\pythonFiles\lib\python\debugpy\launcher" 53348 -- "c:\Users\Gretel Rajamoney\Desktop\lab2.py" "
Request: GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Host: gaia.cs.umass.edu

HTTP/1.1 200 OK
Date: Tue, 20 Apr 2021 04:46:02 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.14 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Mon, 19 Apr 2021 05:59:01 GMT
ETag: "1194-5c04d06c206f9"
Accept-Ranges: bytes
Content-Length: 4500
Content-Type: text/html; charset=UTF-8

<html><head>
<title>Historical Documents:THE BILL OF RIGHTS</title></head>

<body bgcolor="#ffffff" link="#330000" vlink="#666633">
```

My lab2.py program last few lines:

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  5: Python Debug Consc v + [ ] [ ] ^ x

to the rules of the common law.

</p><p><a name="8"><strong><h3>Amendment VIII</h3></strong></a>

<p><p><p>Excessive bail shall not be required, nor excessive fines
Imposed, nor cruel and unusual punishments inflicted.

</p><p><a name="9"><strong><h3>Amendment IX</h3></strong></a>

<p><p><p>The enumeration in the Constitution, of certain rights, shall
not be construed to deny or disparage others retained by the people.

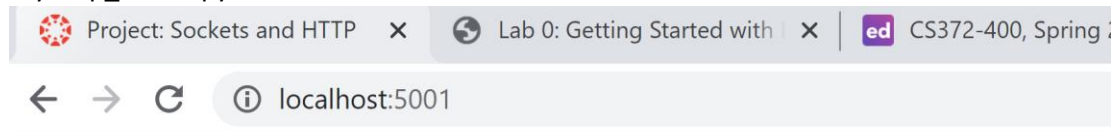
</p><p><a name="10"><strong><h3>Amendment X</h3></strong></a>

<p></p>
<p>The powers not delegated to the United States by the Constitution, nor prohibited
by it to the states, are reserved to the states respectively, or to the people.</p>
</body></html>
```

My http\_server.py program output:

[illegible]

My http\_server.py browser with local host:



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