

CS372-Project1

1. My version of python is 3.9.5. So, these three files use command “python3” to run.

a) http_client.py:

i. python3 http_client.py

b) http_client2.py:

i. python3 http_client.py

c) http_server.py:

i. python3 http_server.py

ii. Startup web browser and navigate to 127.0.0.1:8001

2. http_client.py output:

```
yujianglambp:project1 yujianglan$ python3 http_client.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: Sun, 18 Jul 2021 04:03:34 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: Sat, 17 Jul 2021 05:59:01 GMT
ETag: "51-5c74b66a21c29"
Accept-Ranges: bytes
Content-Length: 81
Content-Type: text/html; charset=UTF-8

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

http_client2.py output:

```

yujianglandemBP:project1 yujianglan$ python3 http_client2.py
Request: GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
Host:gaia.cs.umass.edu

[RECV] - length: 4805
HTTP/1.1 200 OK
Date: Sun, 18 Jul 2021 04:24:51 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: Sat, 17 Jul 2021 05:59:01 GMT
ETag: "1194-5c74b66a1fce9"
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Historical Documents:THE BILL OF RIGHTS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">
<p><br>
</p>
<p></p><center><b>THE BILL OF RIGHTS</b><br>
  <em>Amendments 1-10 of the Constitution</em>
</center>

<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>

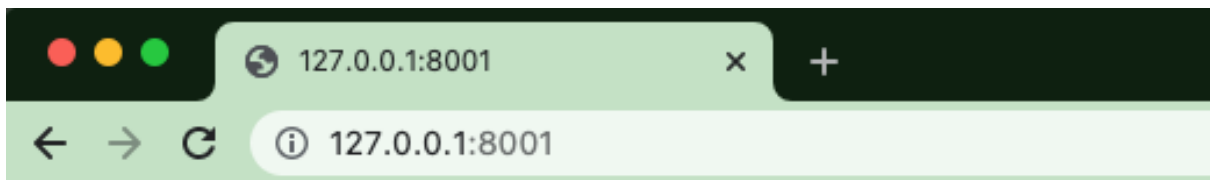
<p></p><p>The enumeration in the Constitution, of certain rights, shall
not be construed to deny or disparage others retained by the people.

</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>

```

http_server.py output:



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

```
yujianglandeMBP:project1 yujianglan$ python3 http_server.py  
Connected by (127.0.0.1,53670)
```

```
Received: b'GET / HTTP/1.1\r\nHost: 127.0.0.1:8001\r\nConnection: keep-alive\r\nCache-Control: max-age=0\r\nsec-ch-ua: " Not;A Brand";v="99", "Google Chrome";v="91", "Chromium";v="91"\r\nsec-ch-ua-mobile: ?0\r\nUpgrade-Insecure-Requests: 1\r\nUser-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.114 Safari/537.36\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9\r\nSec-Fetch-Site: none\r\nSec-Fetch-Mode: navigate\r\nSec-Fetch-User: ?1\r\nSec-Fetch-Dest: document\r\nAccept-Encoding: gzip, deflate, br\r\nAccept-Language: zh-CN,zh;q=0.9\r\n\r\n'
```

```
Sending>>>>>>>
```

```
HTTP/1.1 200 OK
```

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

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

```
<<<<<<<<
```