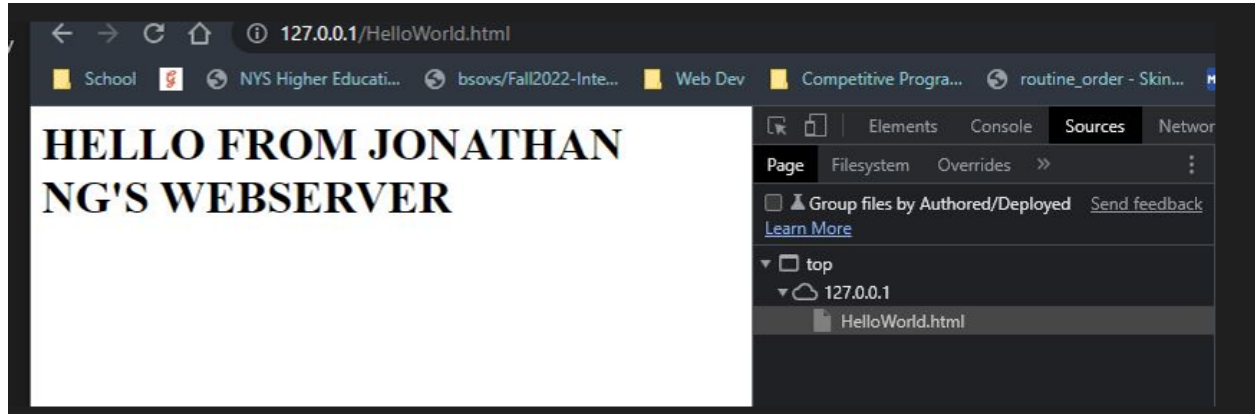


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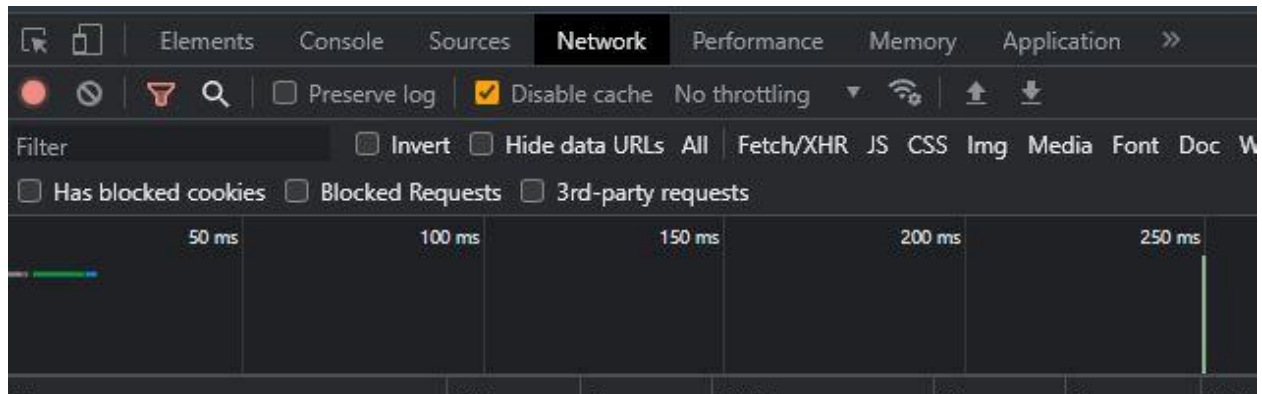
PART A

`sudo python3 webserver.py`



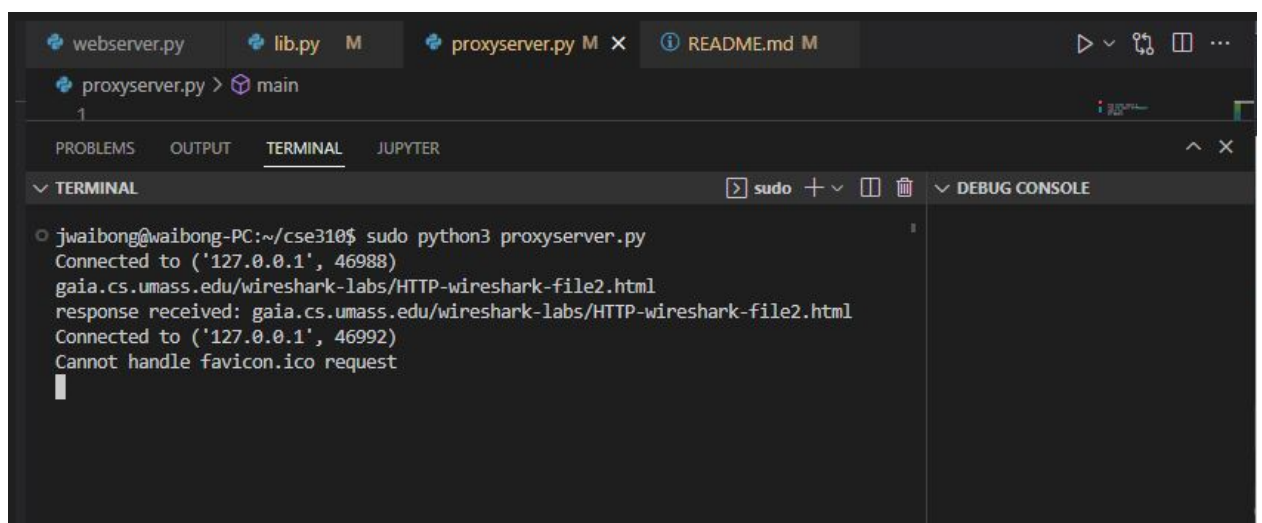
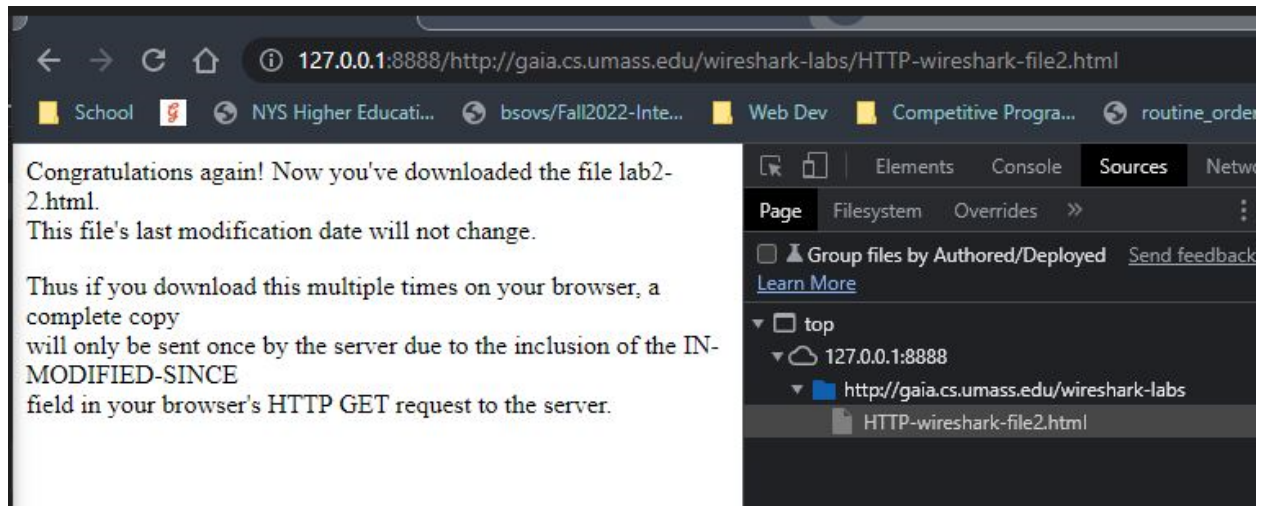
```
jwaibong@jwaibong-PC:~/cse310$ sudo python3 webserver.py
[sudo] password for jwaibong:
Currently in /home/jwaibong/cse310
Connected to ('127.0.0.1', 43744)
█
```

PART B 1) Disable Google Chrome cache in dev tools

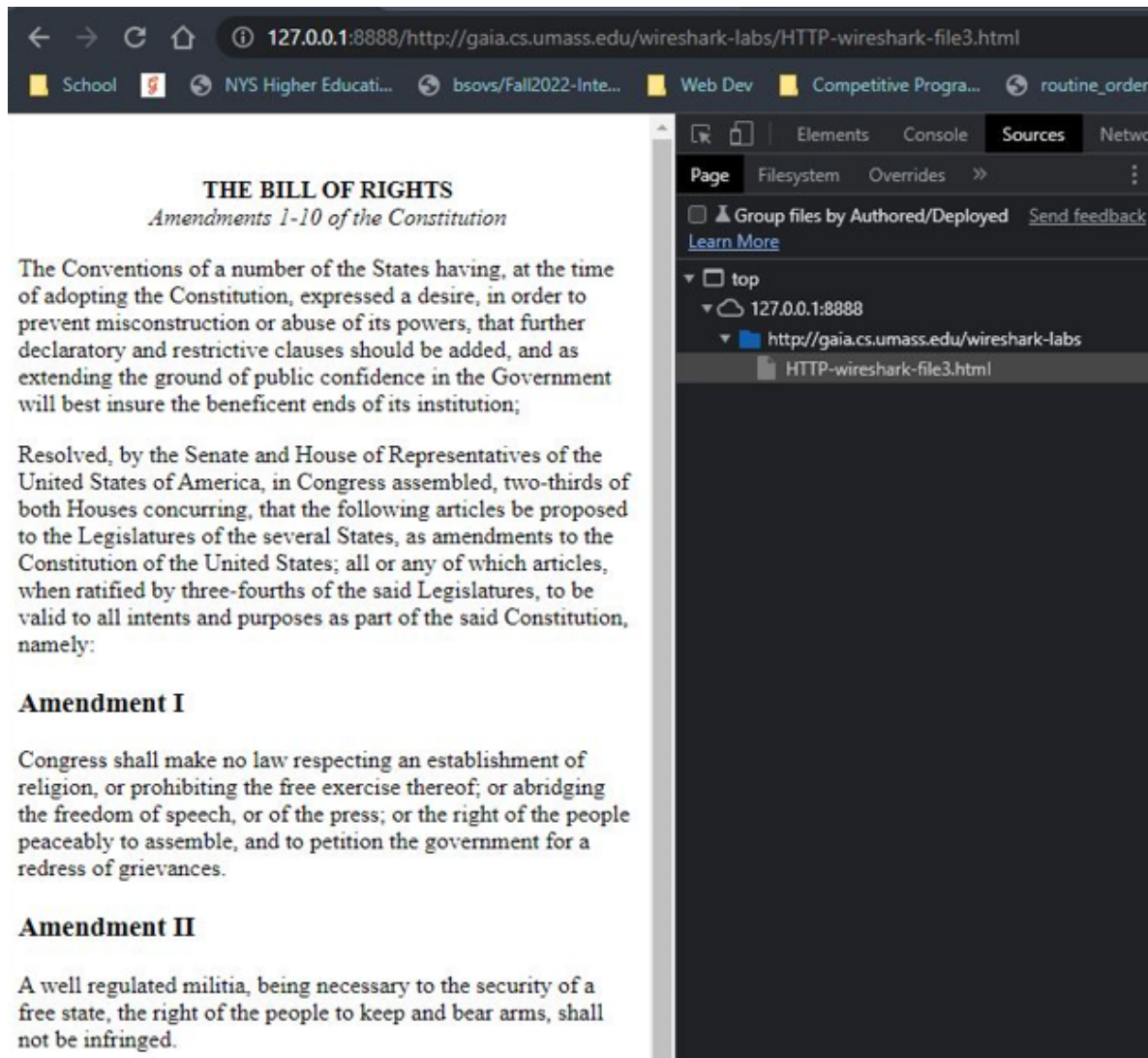


sudo python3 proxyserver.py to run proxy server

2) Request <http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html> from proxy



3) Request <http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html> from proxy



The screenshot shows a web browser displaying the text of the Bill of Rights. The page title is "THE BILL OF RIGHTS" with a subtitle "Amendments 1-10 of the Constitution". The text describes the purpose of the Bill of Rights and lists the first two amendments. On the right side, the Chrome DevTools Sources panel is open, showing the file "HTTP-wireshark-file3.html" loaded from the local address "127.0.0.1:8888".

THE BILL OF RIGHTS
Amendments 1-10 of the Constitution

The Conventions of a number of the States having, at the time of adopting the Constitution, expressed a desire, in order to prevent misconstruction or abuse of its powers, that further declaratory and restrictive clauses should be added, and as extending the ground of public confidence in the Government will best insure the beneficent ends of its institution;

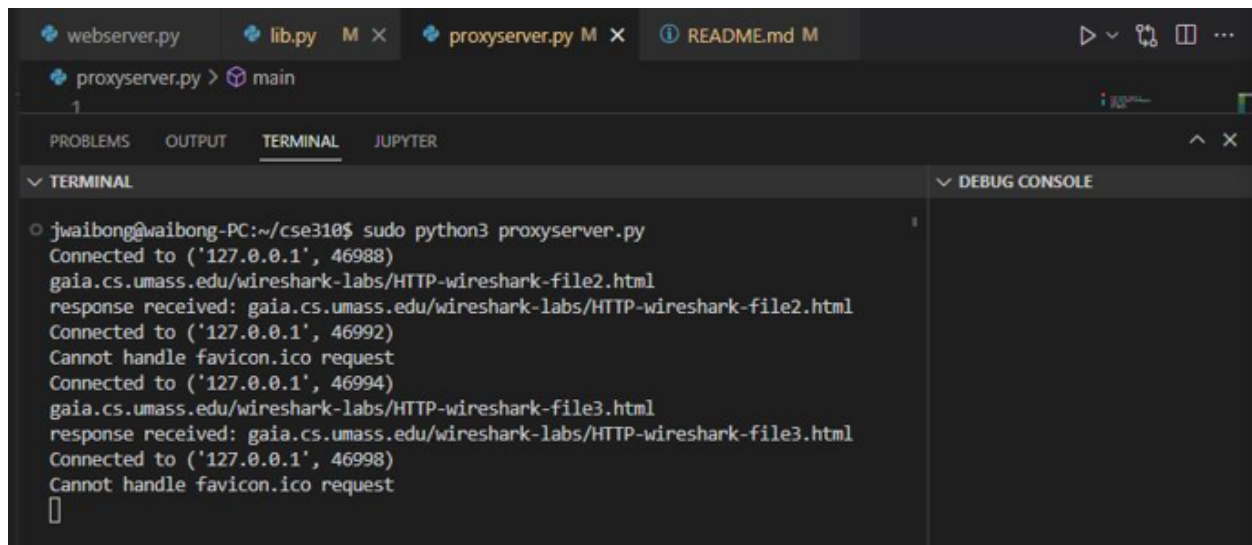
Resolved, by the Senate and House of Representatives of the United States of America, in Congress assembled, two-thirds of both Houses concurring, that the following articles be proposed to the Legislatures of the several States, as amendments to the Constitution of the United States; all or any of which articles, when ratified by three-fourths of the said Legislatures, to be valid to all intents and purposes as part of the said Constitution, namely:

Amendment I

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances.

Amendment II

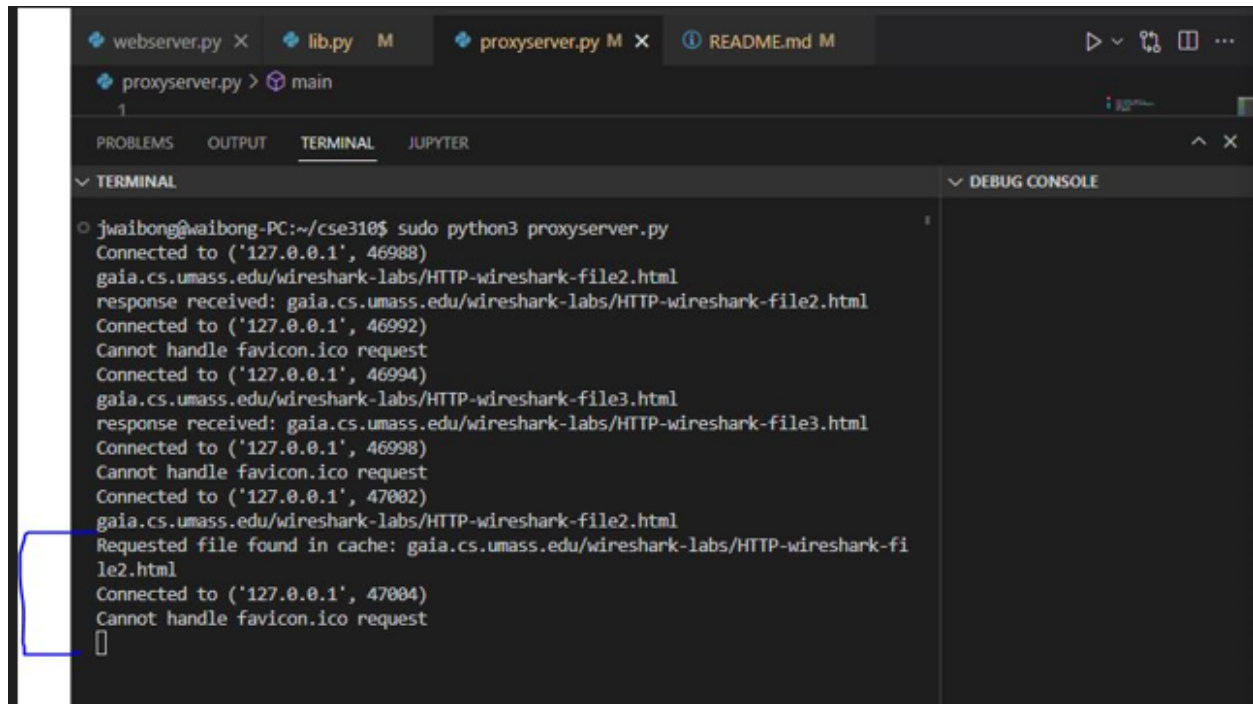
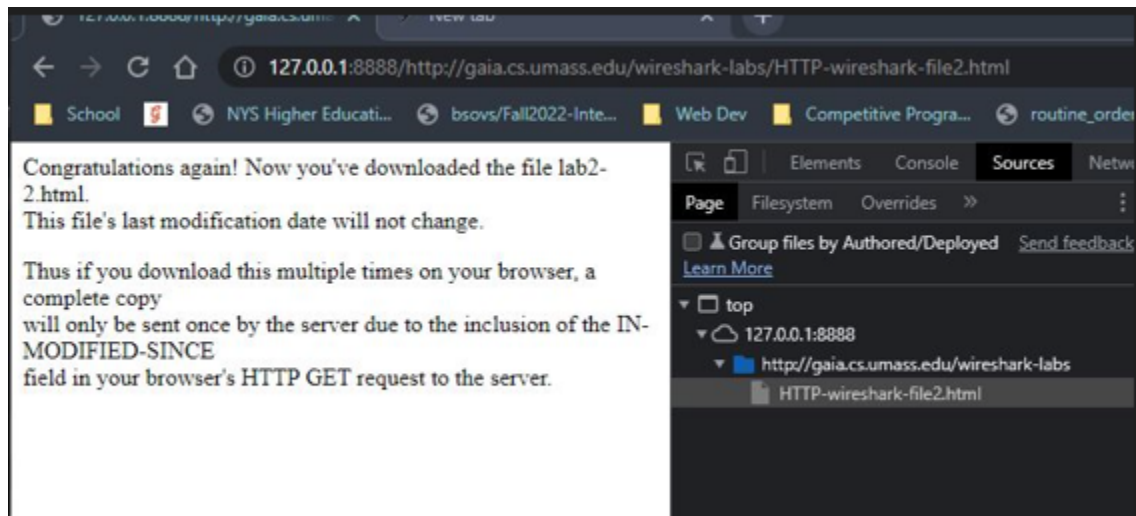
A well regulated militia, being necessary to the security of a free state, the right of the people to keep and bear arms, shall not be infringed.



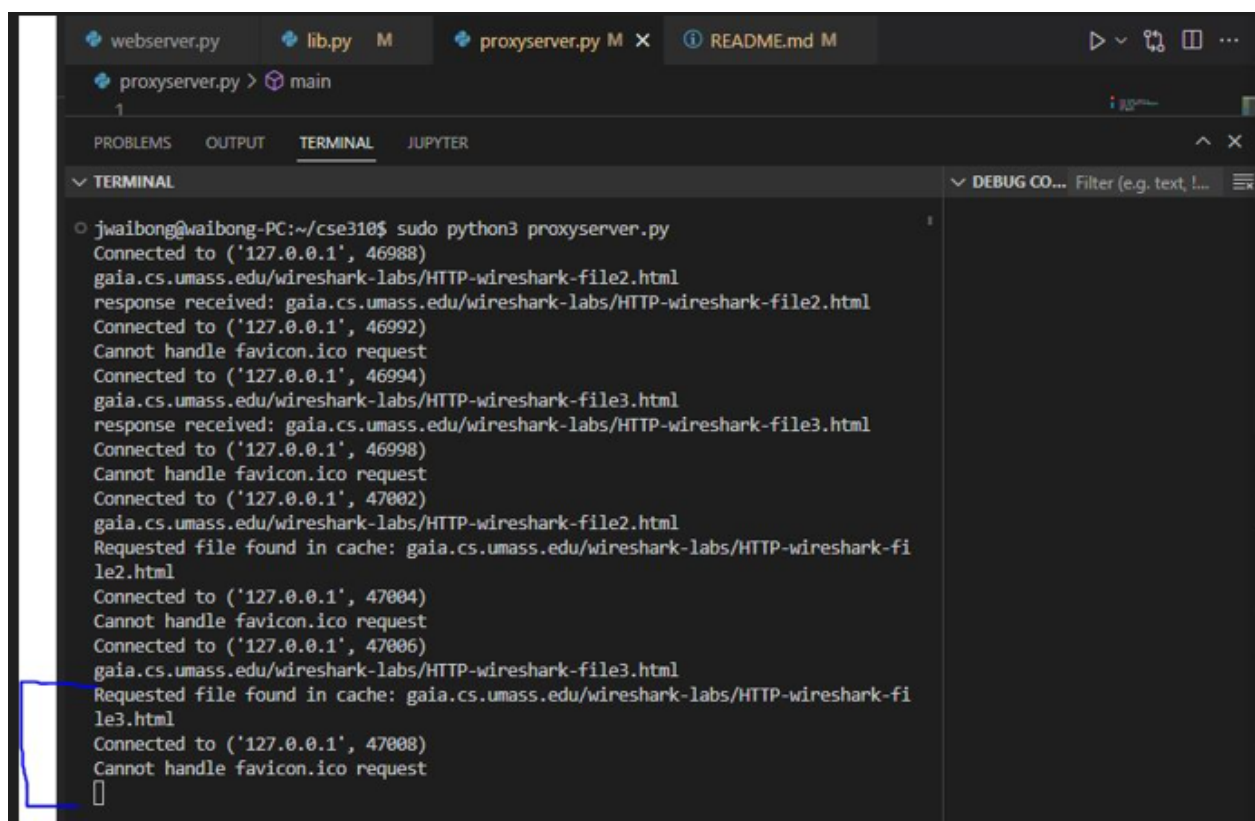
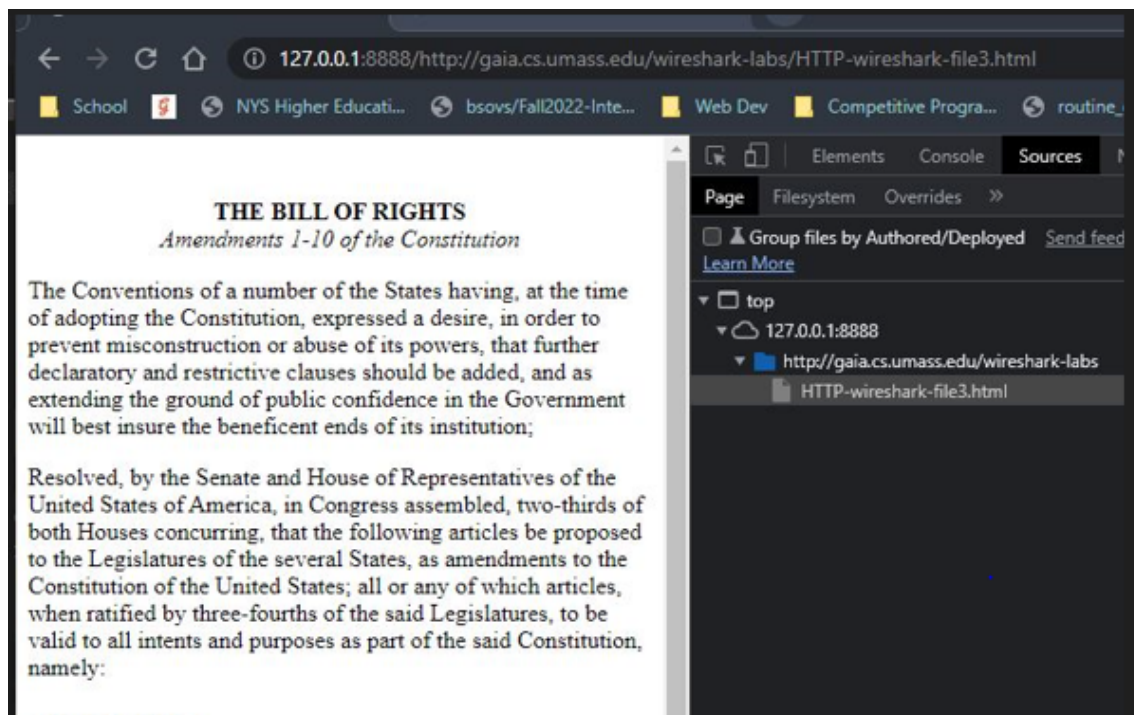
The screenshot shows a Jupyter Notebook interface with a terminal window open. The terminal displays the output of running "python3 proxyserver.py". It shows connections to "127.0.0.1" on ports 46988, 46992, and 46994. The output indicates that the proxy server successfully received requests for "HTTP-wireshark-file2.html" and "HTTP-wireshark-file3.html" from "gaia.cs.umass.edu". It also shows that it cannot handle "favicon.ico" requests.

```
jwaibong@waibong-PC:~/cse318$ sudo python3 proxyserver.py
Connected to ('127.0.0.1', 46988)
gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html
response received: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html
Connected to ('127.0.0.1', 46992)
Cannot handle favicon.ico request
Connected to ('127.0.0.1', 46994)
gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html
response received: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html
Connected to ('127.0.0.1', 46998)
Cannot handle favicon.ico request
```

4) Request <http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html> and receive it from proxy cache



5) Request <http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html> and receive it from proxy cache



Screenshot of retrieving a page with a .jpg image

127.0.0.1:8888/<http://www.columbia.edu/~fdc/sample.html>

The browser gets rid of 127.0.0.1:8888 in the search bar and the file is listed under “top” in the dev console for some reason. This happens for other sites as well, such as

127.0.0.1:8888/<http://wa.gov/>

```
Connected to ('127.0.0.1', 44300)
columbia.edu/~fdc/sample.html
Requested file found in cache: columbia.edu/~fdc/sample.html
[]
```

