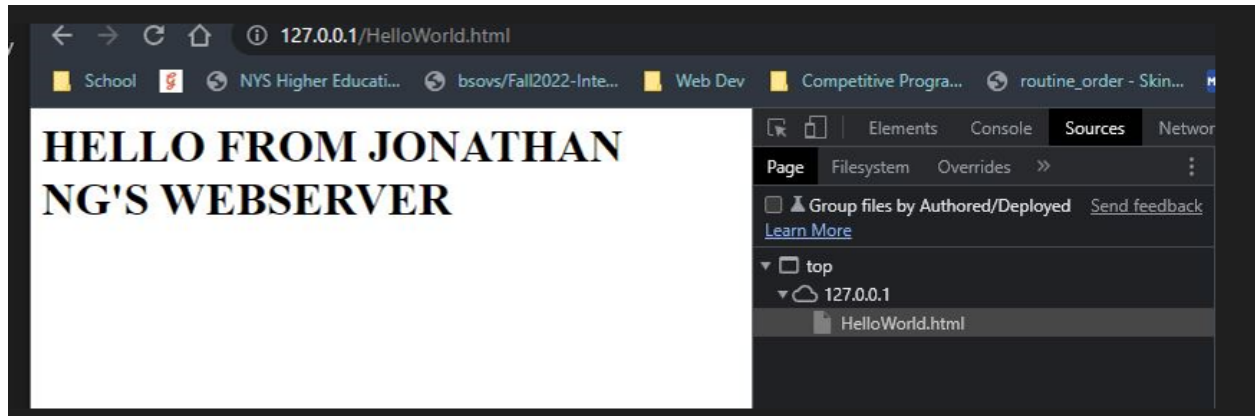


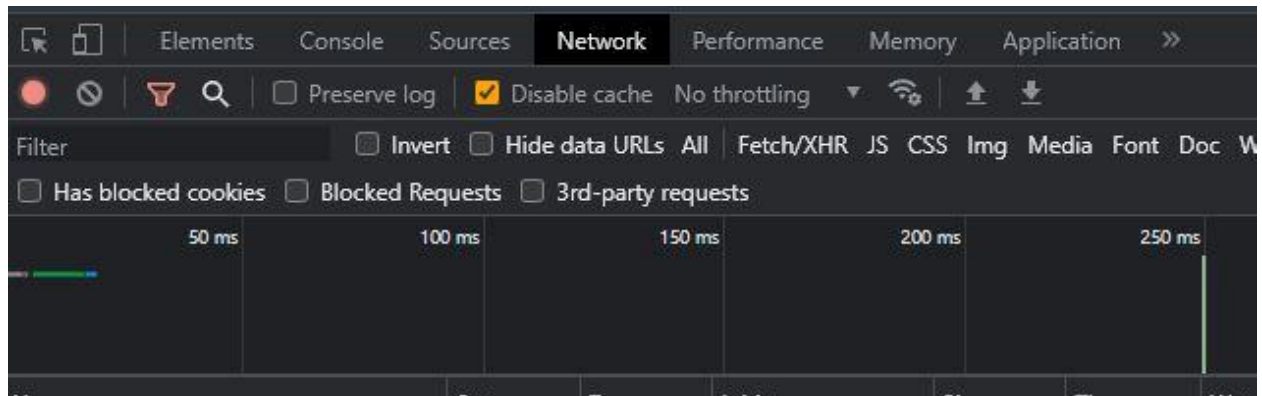
Jonathan Ng 113460607 CSE 310 HW 1

PART A

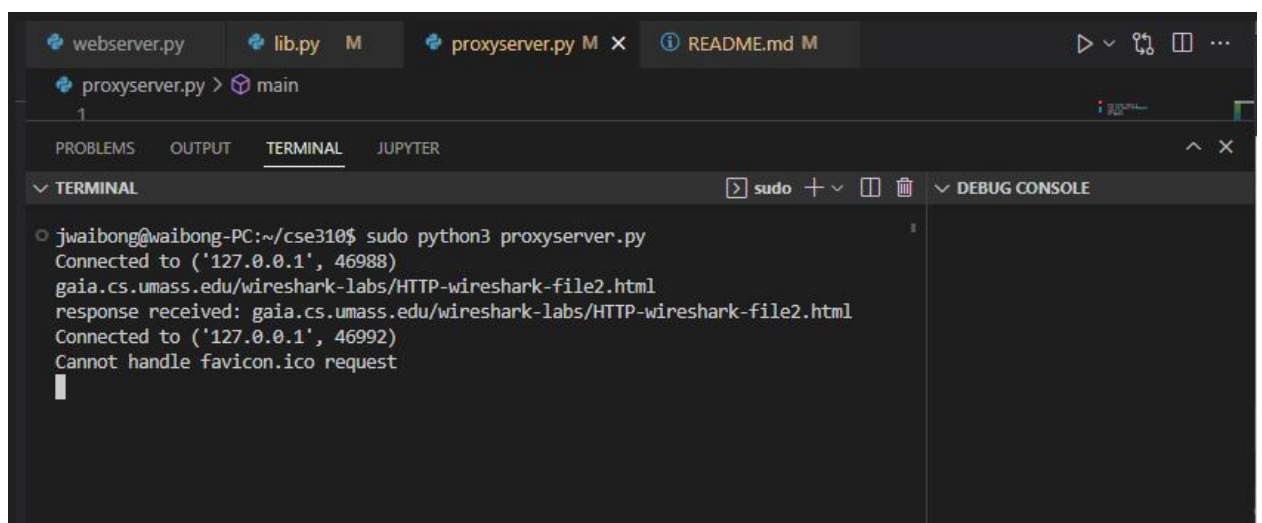
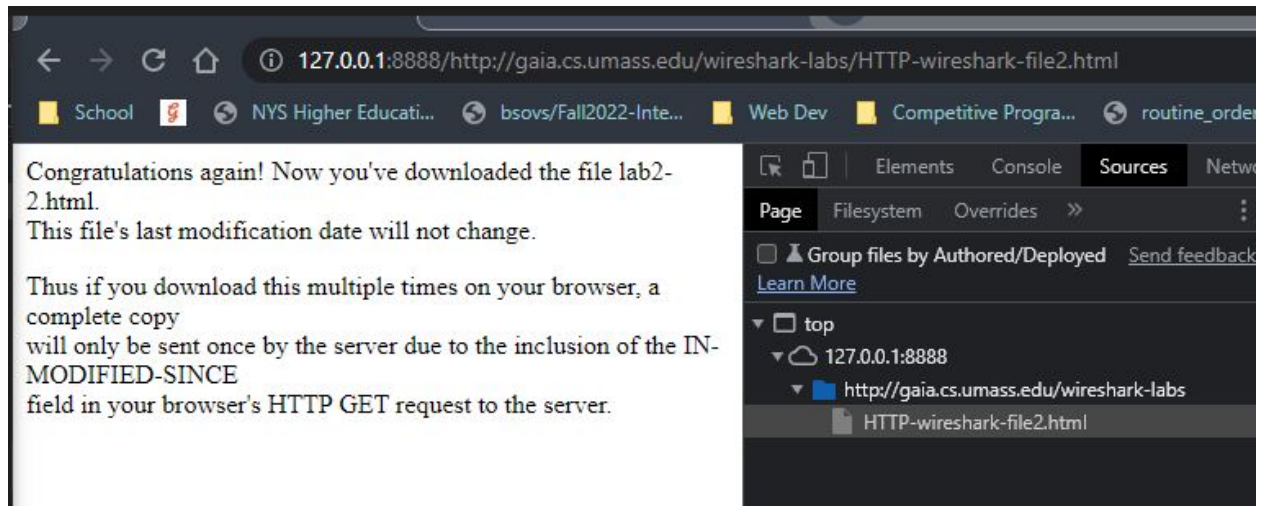


```
jwaibong@jwaibong-PC:~/cse310$ sudo python3 webserver.py
[sudo] password for jwaibong:
Currently in /home/jwaibong/cse310
Connected to ('127.0.0.1', 43744)
█
```

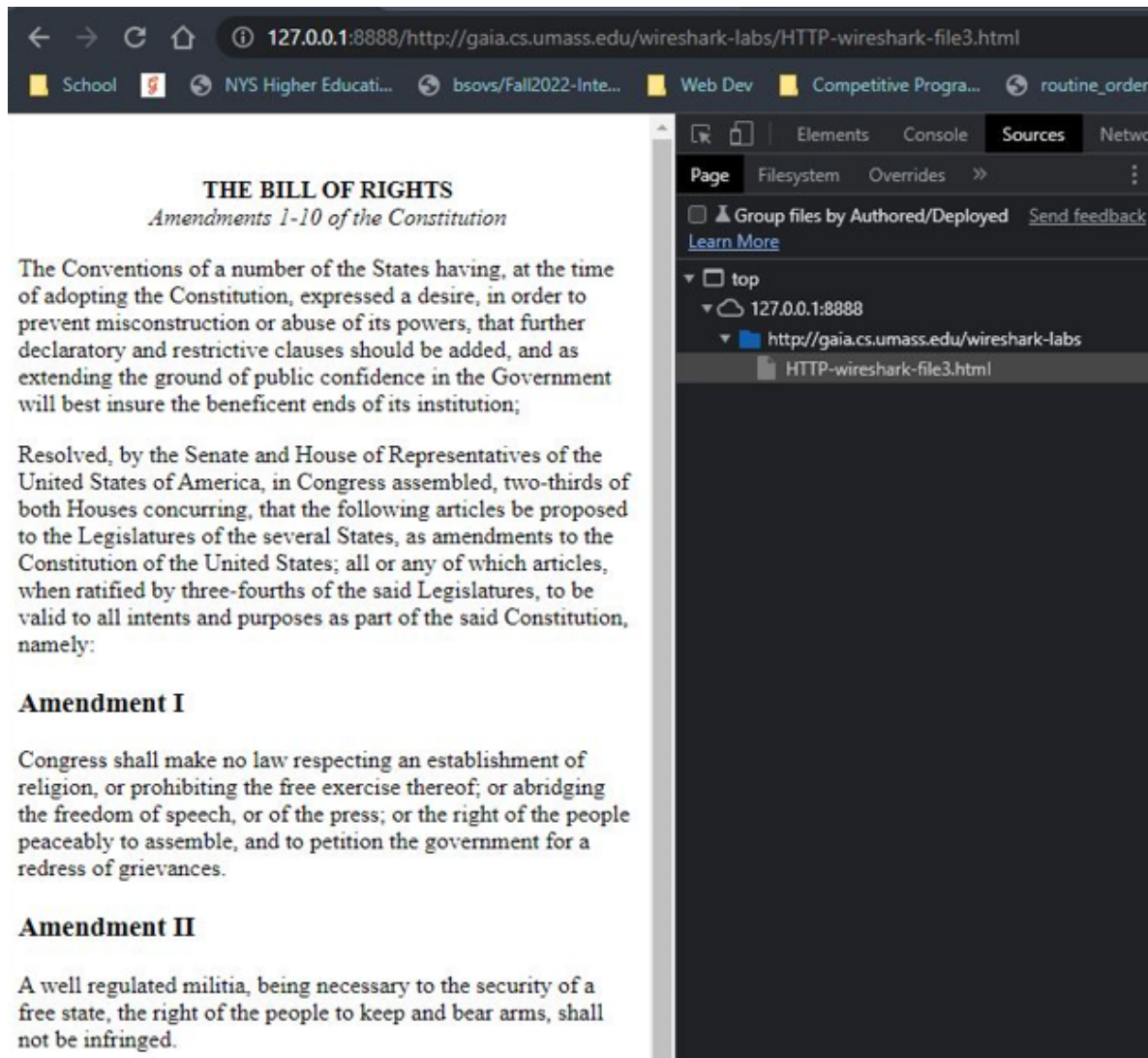
PART B 1) Disable Google Chrome cache in dev tools



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.

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:

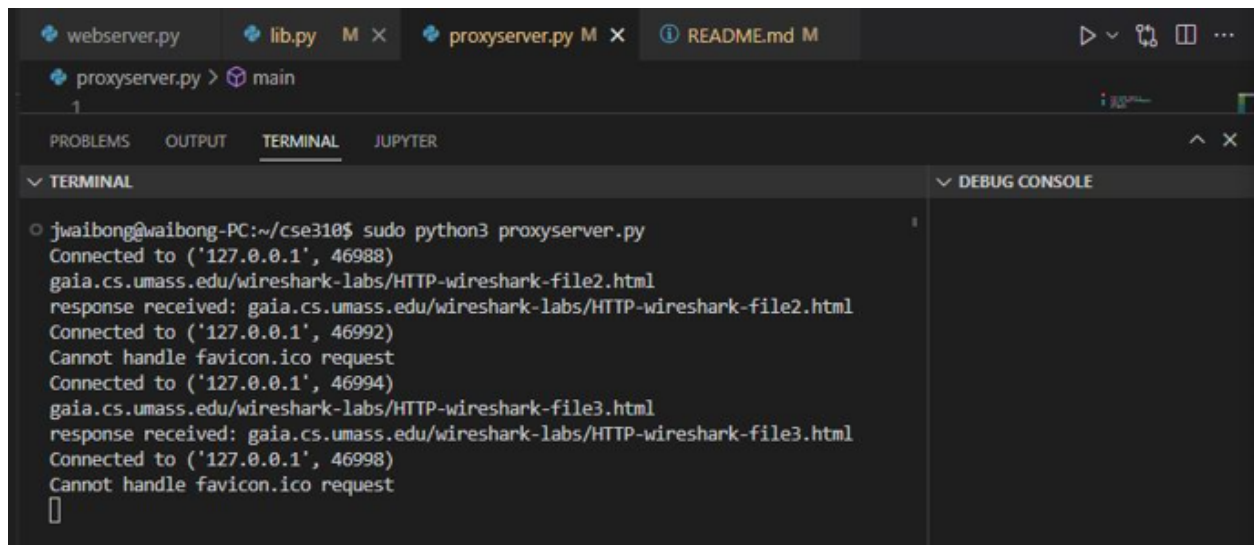
Amendment I

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.

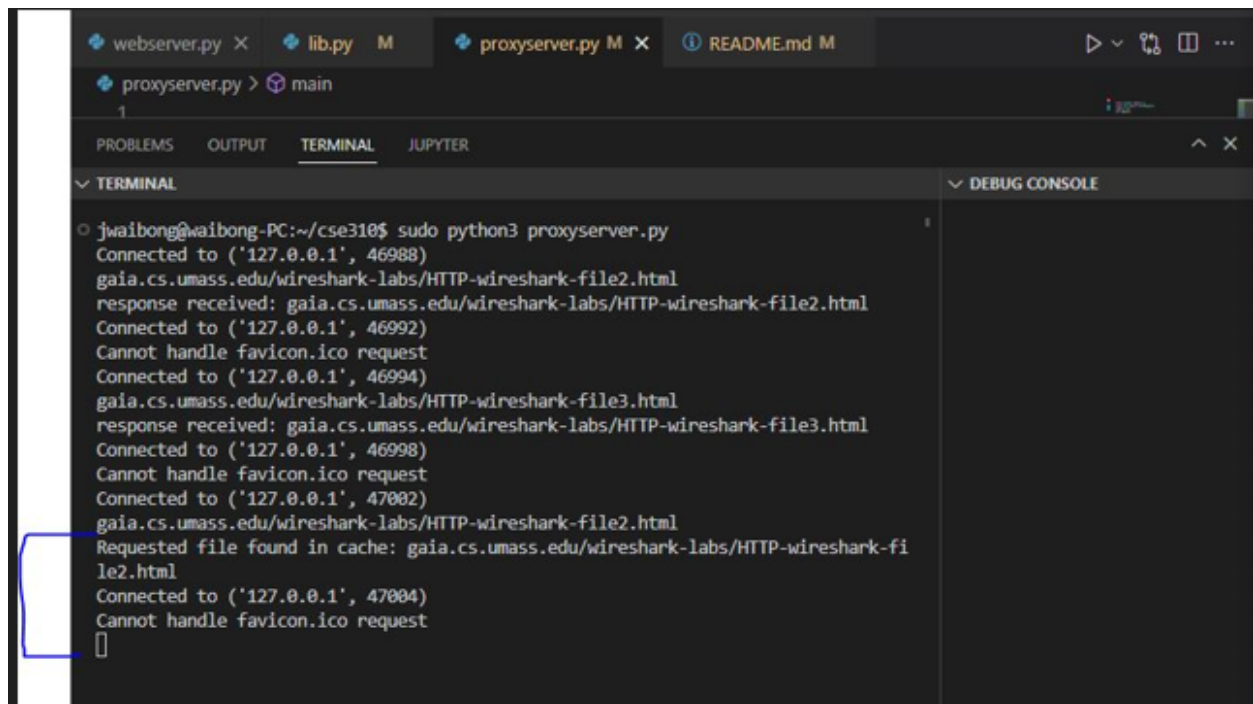
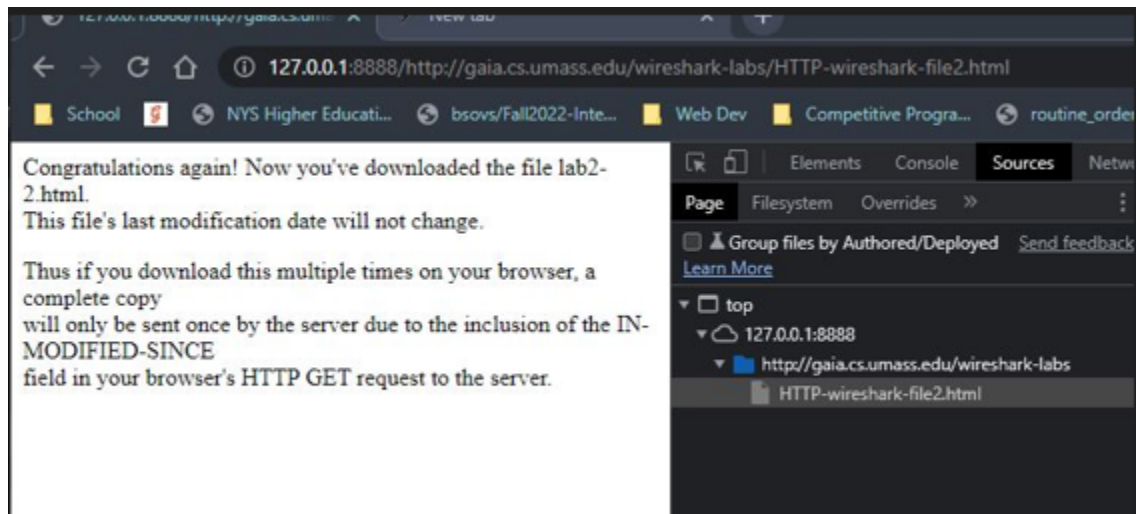
The right-hand side of the image shows the Chrome DevTools Sources panel. It displays the file structure of the web page, showing the path `http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html`.



The screenshot shows a Jupyter Notebook interface with a terminal window open. The terminal displays the output of a Python script named `proxyserver.py`. The script is running on a machine named `jwaibong@waibong-PC` and is using `sudo python3 proxyserver.py`. The output shows the script successfully connecting to the target URL `gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html` and receiving a response. It also shows that the script cannot handle a `favicon.ico` request.

```
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

