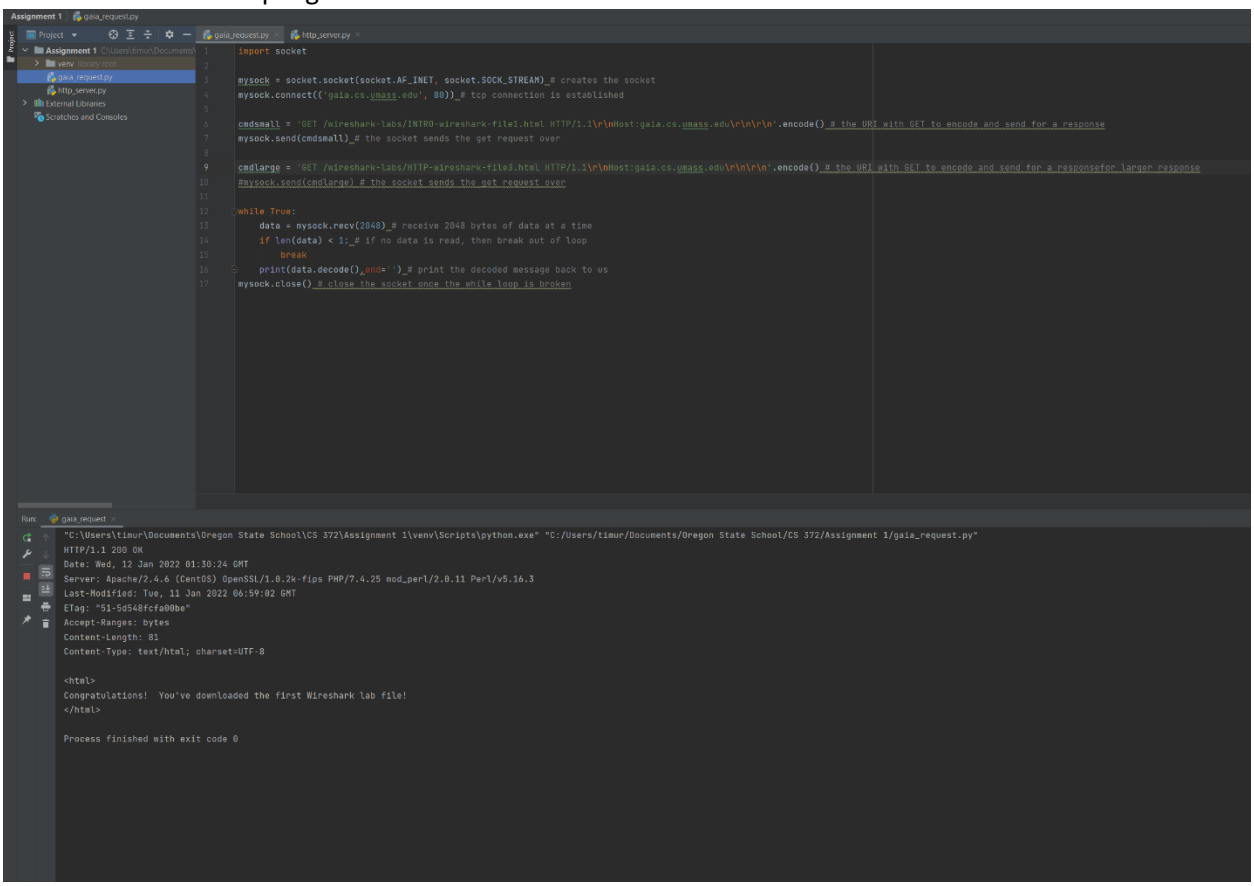
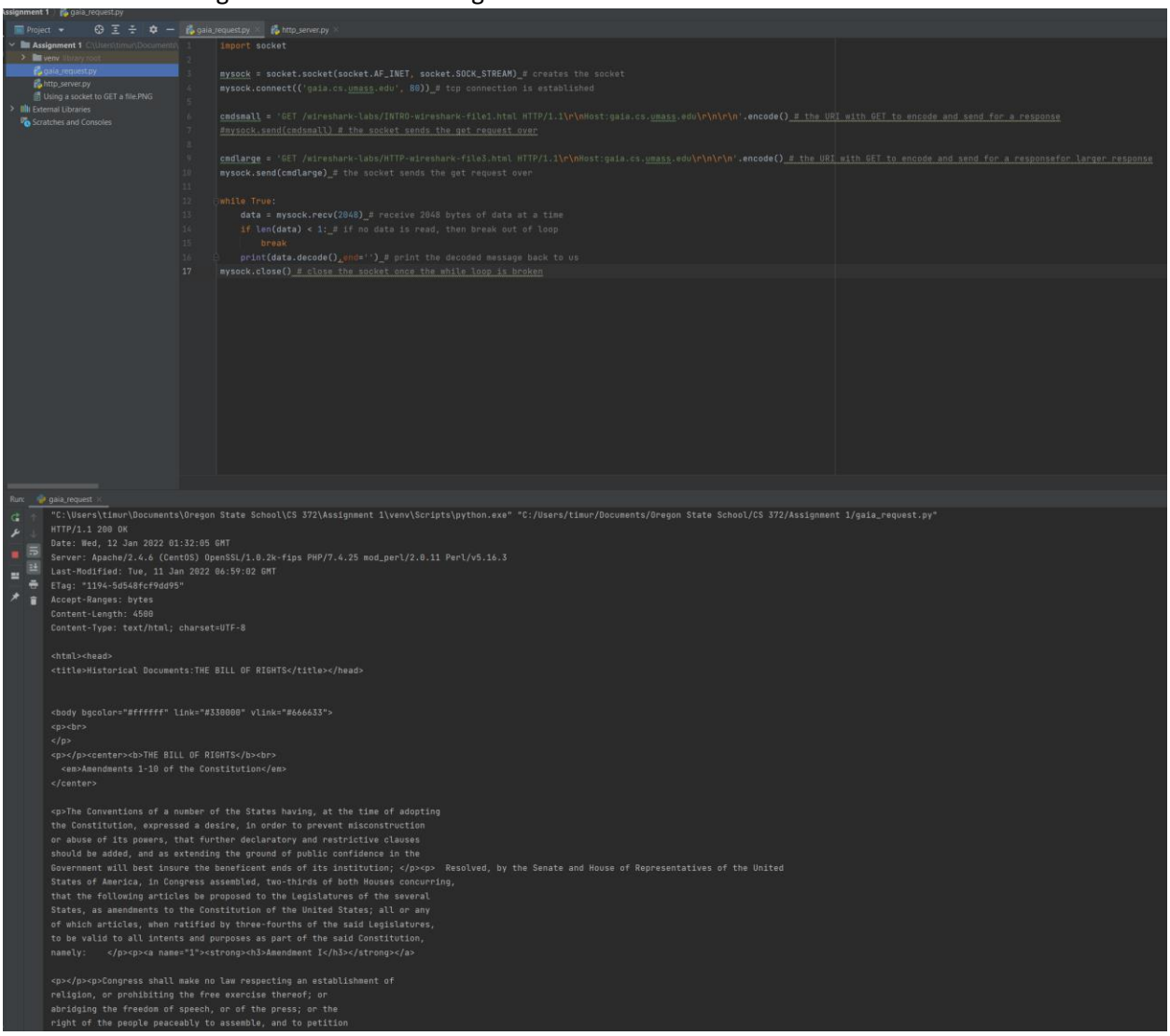
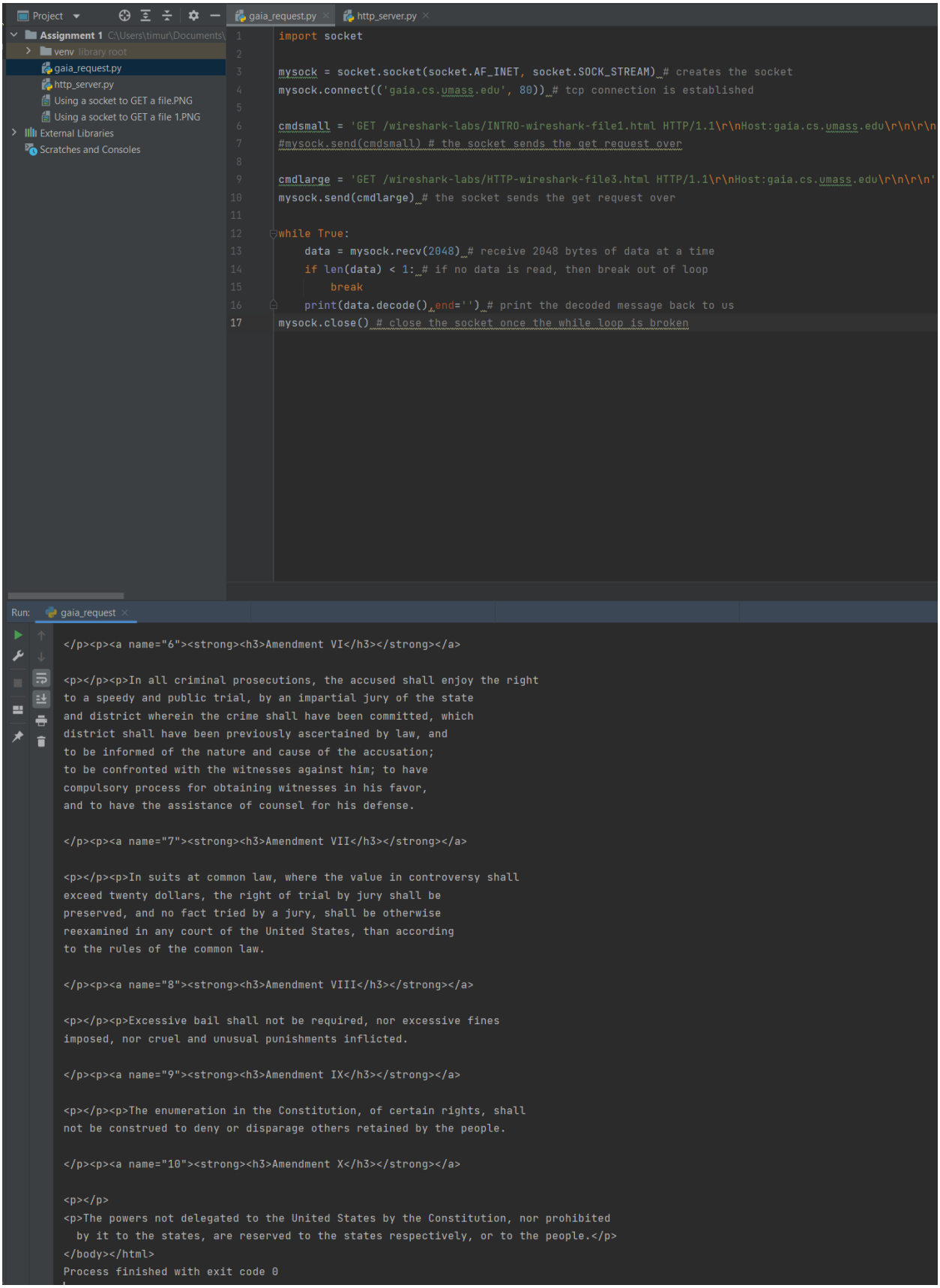
Programming Assignment 1 Screenshots and Instructions:

1) Screenshot of the simple gaia connection



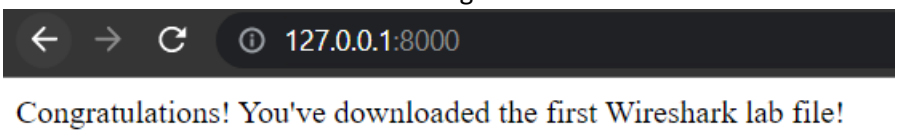
2) Screenshots of the gaia connection for longer data

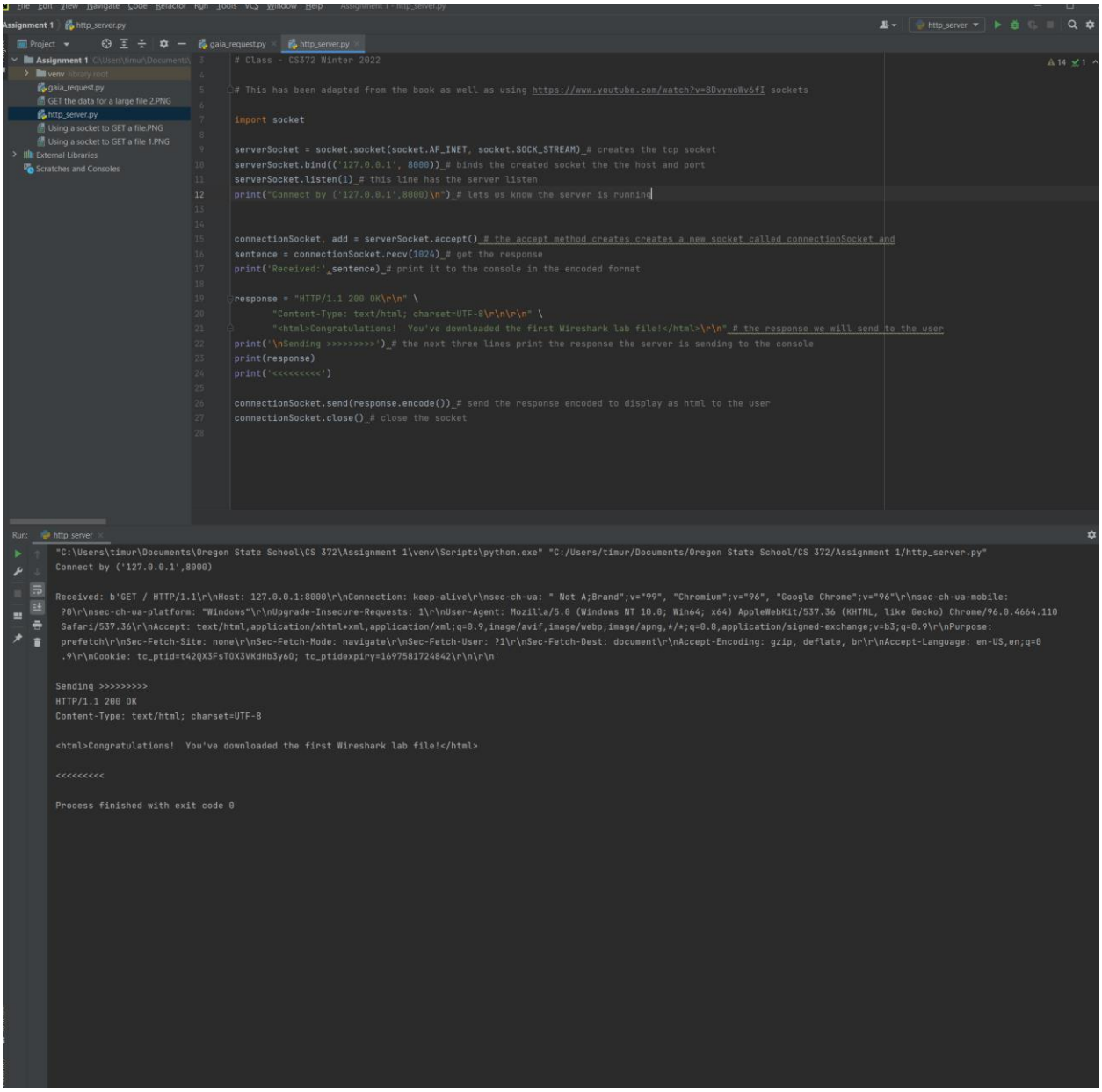



Project
Assignment 1 C:\Users\timur\Documents\
venv library root
gaia_request.py
http_server.py
Using a socket to GET a file.PNG
Using a socket to GET a file 1.PNG
External Libraries
Scratches and Consoles
gaia_request.py
http_server.py
import socket
mysock = socket.socket(socket.AF_INET, socket.SOCK_STREAM) # creates the socket
mysock.connect(('gaia.cs.umass.edu', 80)) # tcp connection is established
cmdsmall = 'GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\nHost:gaia.cs.umass.edu\r\n\r\n
#mysock.send(cmdsmall) # the socket sends the get request over
cmdlarge = 'GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1\r\nHost:gaia.cs.umass.edu\r\n\r\n'
mysock.send(cmdlarge) # the socket sends the get request over
while True:
data = mysock.recv(2048) # receive 2048 bytes of data at a time
if len(data) < 1: # if no data is read, then break out of loop
break
print(data.decode(),end='') # print the decoded message back to us
mysock.close() # close the socket once the while loop is broken
Run:
gaia_request
<h3>Amendment VI</h3>
In all criminal prosecutions, the accused shall enjoy the right
to a speedy and public trial, by an impartial jury of the state
and district wherein the crime shall have been committed, which
district shall have been previously ascertained by law, and
to be informed of the nature and cause of the accusation;
to be confronted with the witnesses against him; to have
compulsory process for obtaining witnesses in his favor,
and to have the assistance of counsel for his defense.
<h3>Amendment VII</h3>
In suits at common law, where the value in controversy shall
exceed twenty dollars, the right of trial by jury shall be
preserved, and no fact tried by a jury, shall be otherwise
reexamined in any court of the United States, than according
to the rules of the common law.
<h3>Amendment VIII</h3>
Excessive bail shall not be required, nor excessive fines
imposed, nor cruel and unusual punishments inflicted.
<h3>Amendment IX</h3>
The enumeration in the Constitution, of certain rights, shall
not be construed to deny or disparage others retained by the people.
<h3>Amendment X</h3>

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.
</body></html>
Process finished with exit code 0

3) Screenshots of the HTTP server running





4)

a. To run the code there are two options
    i. Open PyCharm and hit run.
    ii. Open the console and navigate to the location the file is in. Enter python http_server.py to run on the console.
b. Once the code is running, open the web browser and go to 127.0.0.1:8000. You will receive the message about downloading the wireshark file on the browswer and the console will display the output in the screenshot.