Computer Network

HW #1 (30 Points)

Due date : 2018/4/19 (eCampus)

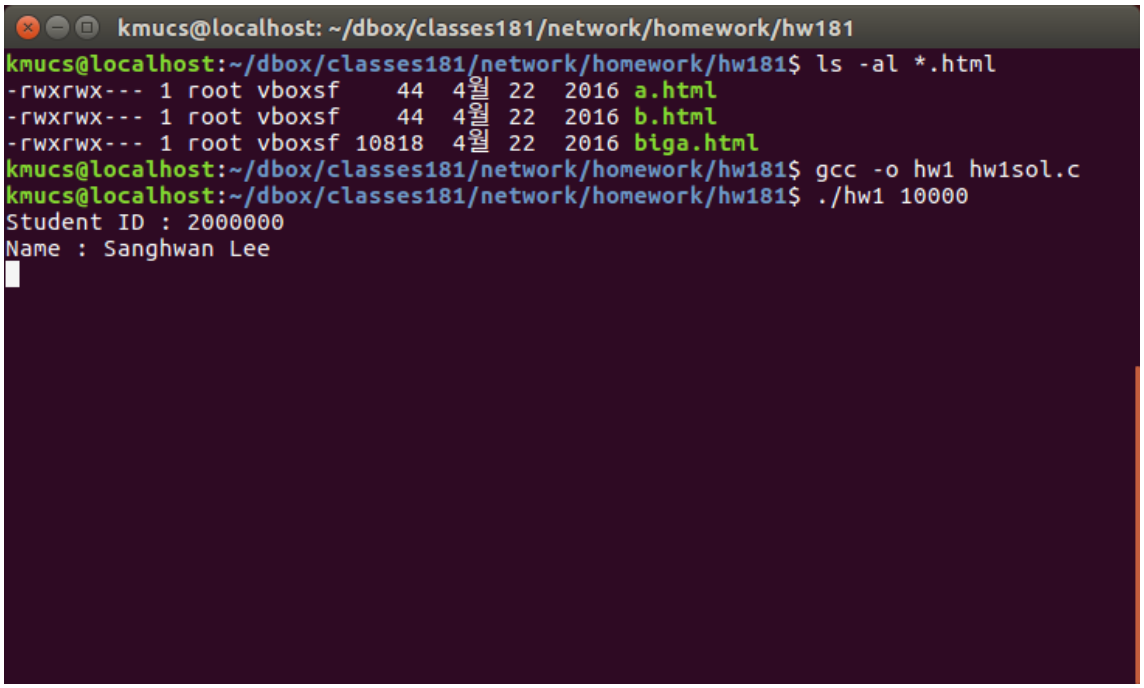
Things to Submit : studentid.c File (All code should be in one file.)

This homework is to implement a simple web server. The web server should be able to receive a **HTTP Request** and send the **HTTP response** messages.

The following is an example of execution.

First, run the application "hw1" with port number 10000.

You will see the student id and the name of the student.

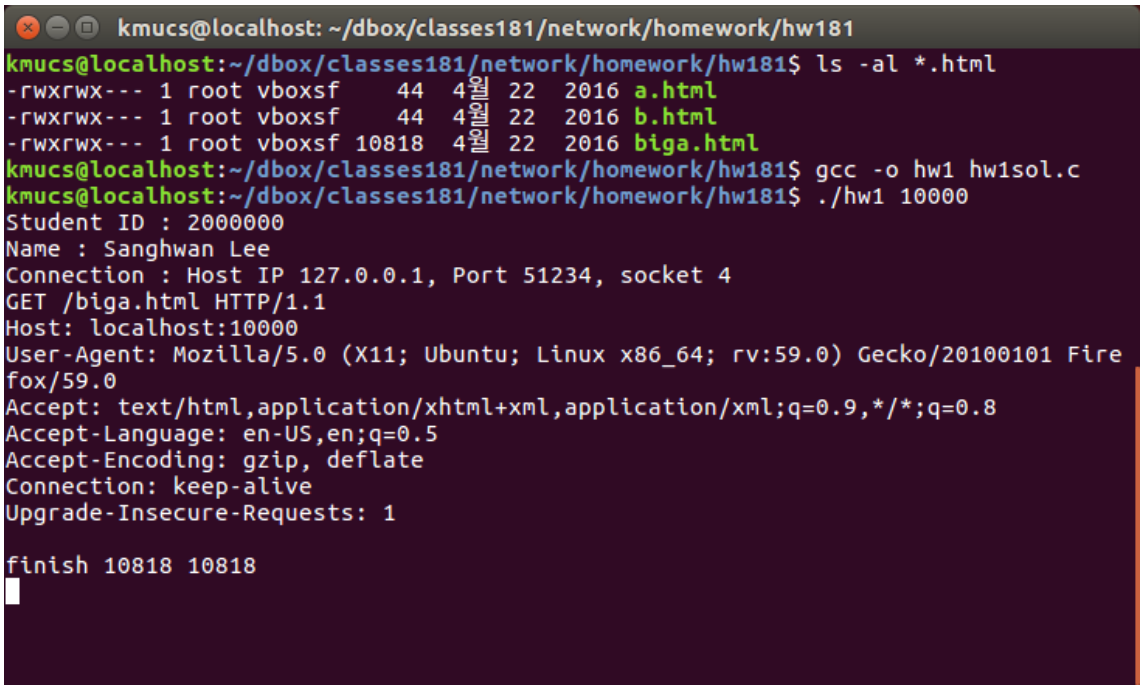


Now, run a web browser and request one of the .html files. The URL is as follows.

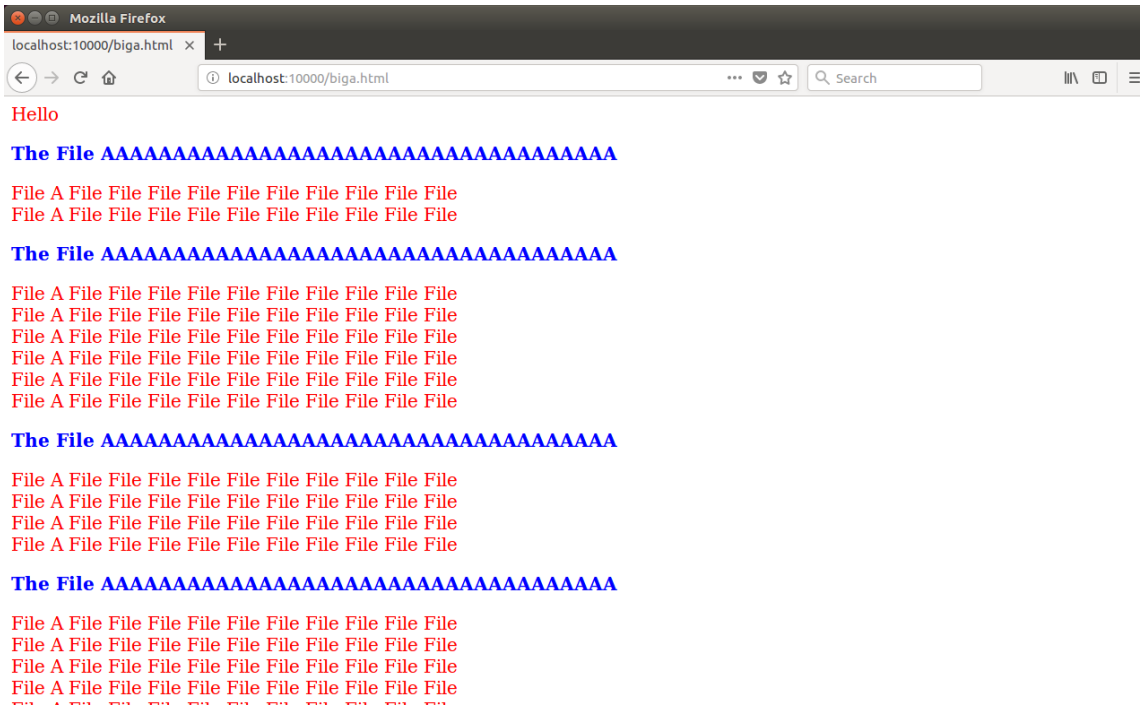
http://localhost:10000/biga.html

Type this above URL in the web browser and hit enter.

hw1 will display the information of the connection and the HTTP request message.
Then, it will send the HTTP response message with the requested file.
After that, it displays the number of bytes sent and the number of bytes of the file.
The two numbers should be the same.



Then, the browser will display the file.



Now, hw1 is ready to receive another request.

Implementation details

- When the program is executed, the student ID and name should appear just as the above figures.
- An executable is attached so that you can test by yourself.
- In this homework, you do not have to use **`select()`** system call.
- Hw1.c contains a skeleton code for your convenience.
- Some C library function such as `fdopen()`, `fwrite()`, `fgets()`, and `fread()` are useful to read the socket and write the data to a file.

Good Luck!!!!