

CSC-415-01 Fall 2020

Rinay Kumar

Student ID: 913859133

Project: Assignment 5 – Buffered I/O - Continued - Buffered Write

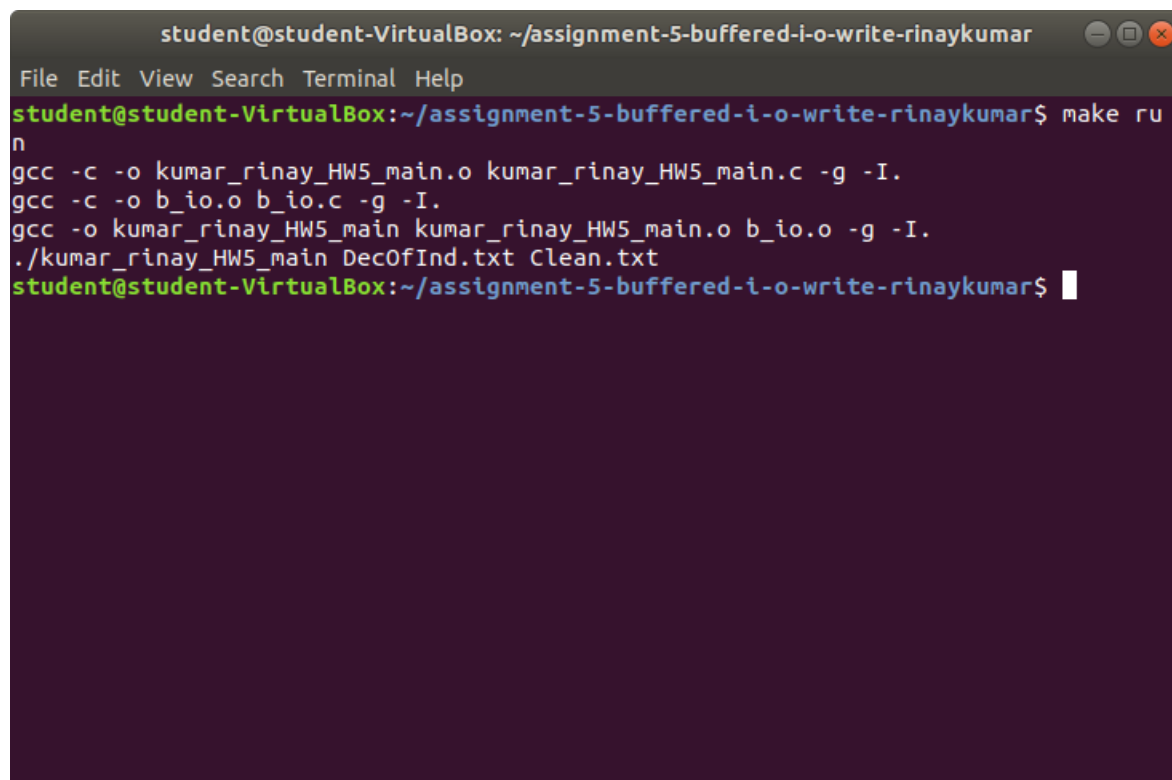
Github: rinaykumar

Link: <https://github.com/CSC415-Fall2020/assignment-5-buffered-i-o-write-rinaykumar>

#### Description:

In this assignment, an additional method `b_write` was added to the buffered I/O program from assignment 2. The method was a buffered write, following the same principles of the buffered read function `b_read`. At first I thought the same logic as `b_read` could be used with minor adjustments for `write()` calls instead of `read()` calls, however this implementation was not functioning as was required. So I started from scratch, and first implemented the `write()` function, buffering in 512 byte chunks, with the count variable set to the default 75 length. This implementation worked and resulted in a `Clean.txt` that was identical to the `ProvidedClean.txt`. The implementation did not work however when the count variable was changed to a length greater than 512. To try and keep code that was already written, I implemented a separate logic block for when the count was greater than 512 and tested with count set to 750 and 1030. There was a bit of difficulty in getting this part of the code to work properly, but I did manage to make it work as required and expected.

#### Sample Output:



```
student@student-VirtualBox: ~/assignment-5-buffered-i-o-write-rinaykumar
File Edit View Search Terminal Help
student@student-VirtualBox:~/assignment-5-buffered-i-o-write-rinaykumar$ make run
gcc -c -o kumar_rinay_HW5_main.o kumar_rinay_HW5_main.c -g -I.
gcc -c -o b_io.o b_io.c -g -I.
gcc -o kumar_rinay_HW5_main kumar_rinay_HW5_main.o b_io.o -g -I.
./kumar_rinay_HW5_main DecOfInd.txt Clean.txt
student@student-VirtualBox:~/assignment-5-buffered-i-o-write-rinaykumar$
```