## Lab 1

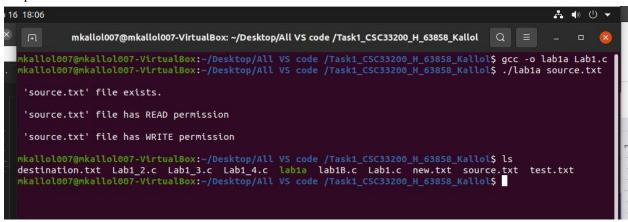
Csc 33200 (H-63858) Instructor: Sujoy Debnath Name: Moshahid Kallol

This lab briefly shows us how linux system calls work with the device and the user. For Lab 1, we are specifically working with *File Management System Calls*. Here, I am attaching the codes and outputs for the given tasks.

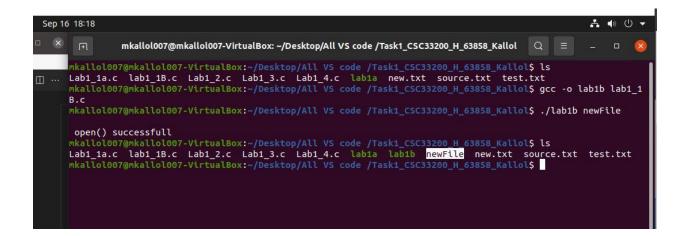
**Task 1\_A:** We are asked to extend the given code snippet to check read and write permission.

Code: attached in the zip folder

Output:

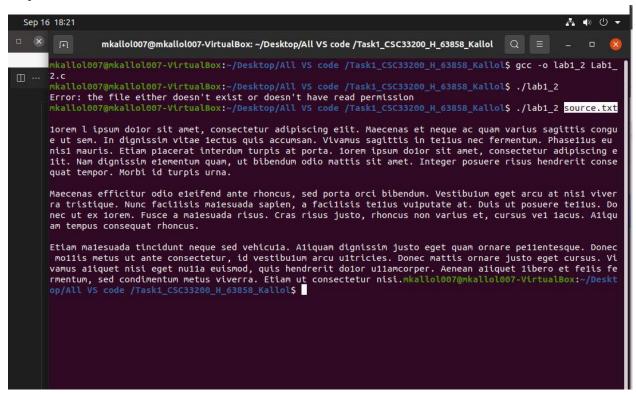


**Task 1\_B:** Write a C program to create a new file using open system call. Output:



**Task 2:** Write a C program to implement a command called *displaycontent* that takes a (text) file name as argument and displays its contents.

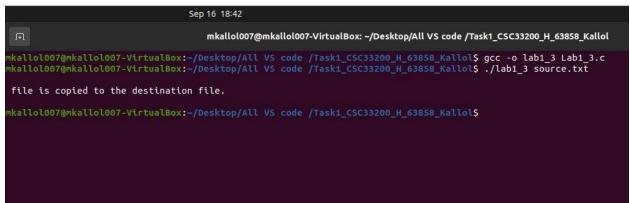
Output:



**Task 3:** Write a C program that mimics the cp command.

Code: file is attached.

Output: For this task I have tried getting the size of the file and using it as a buffer. It was not working correctly for me. So I specified the buffer implicitly. It copies the source file. But in the destination file, it also writes some garbage after the file is fully copied.



## Task 4:

- (a) Read the next 100 characters from source.txt, and among characters read, replace each character `1` with character `L` and all characters are then written in destination.txt
- (b) Write characters "XYZ" into file destination.txt
- (c) Repeat the previous steps until the end of file source.txt. The last read step may not have 100 characters.

Code: I tried copying 100 chars at a time using a specified scope. Then find '1' and replace it. Output:

