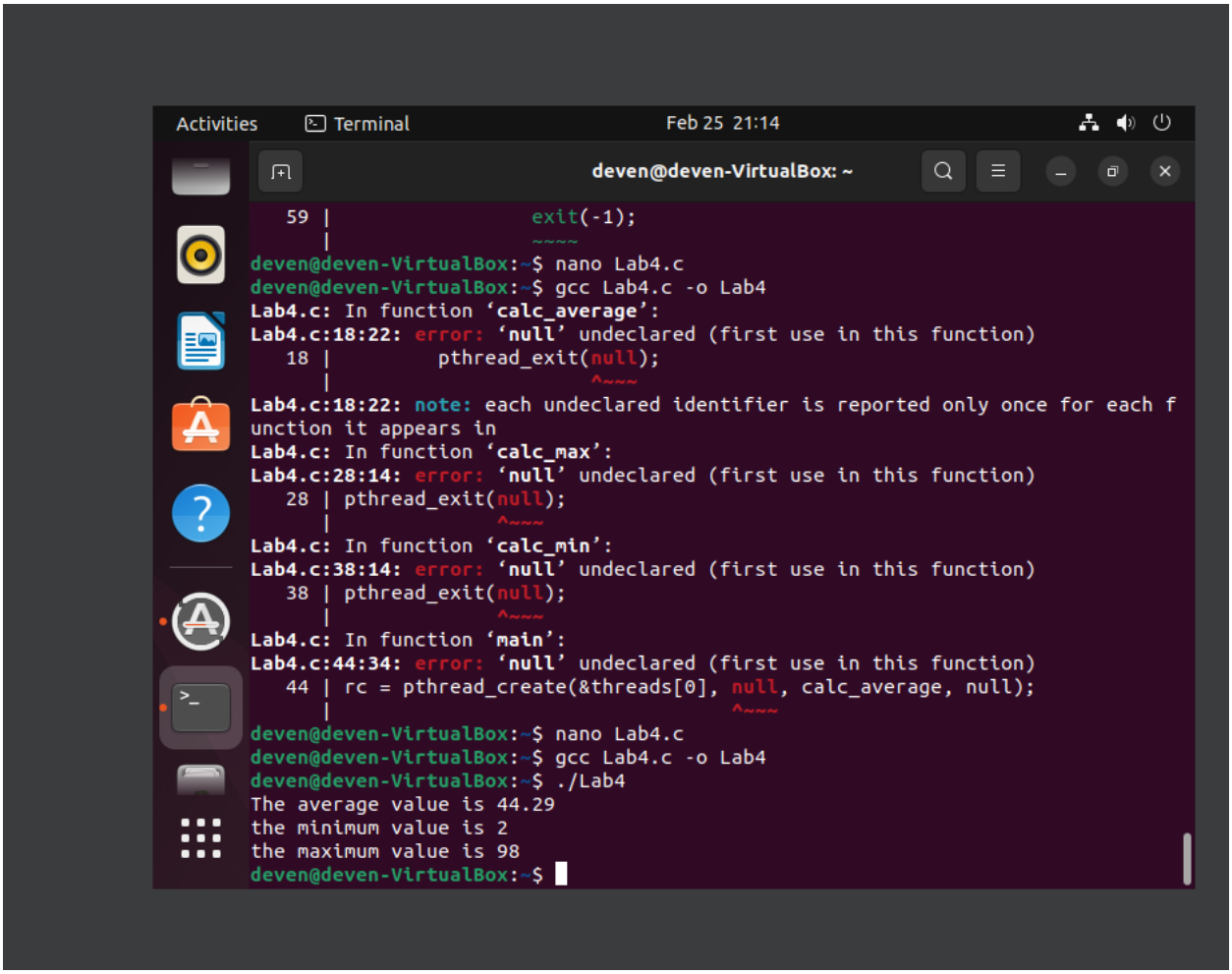
Deven Nieves-Noel

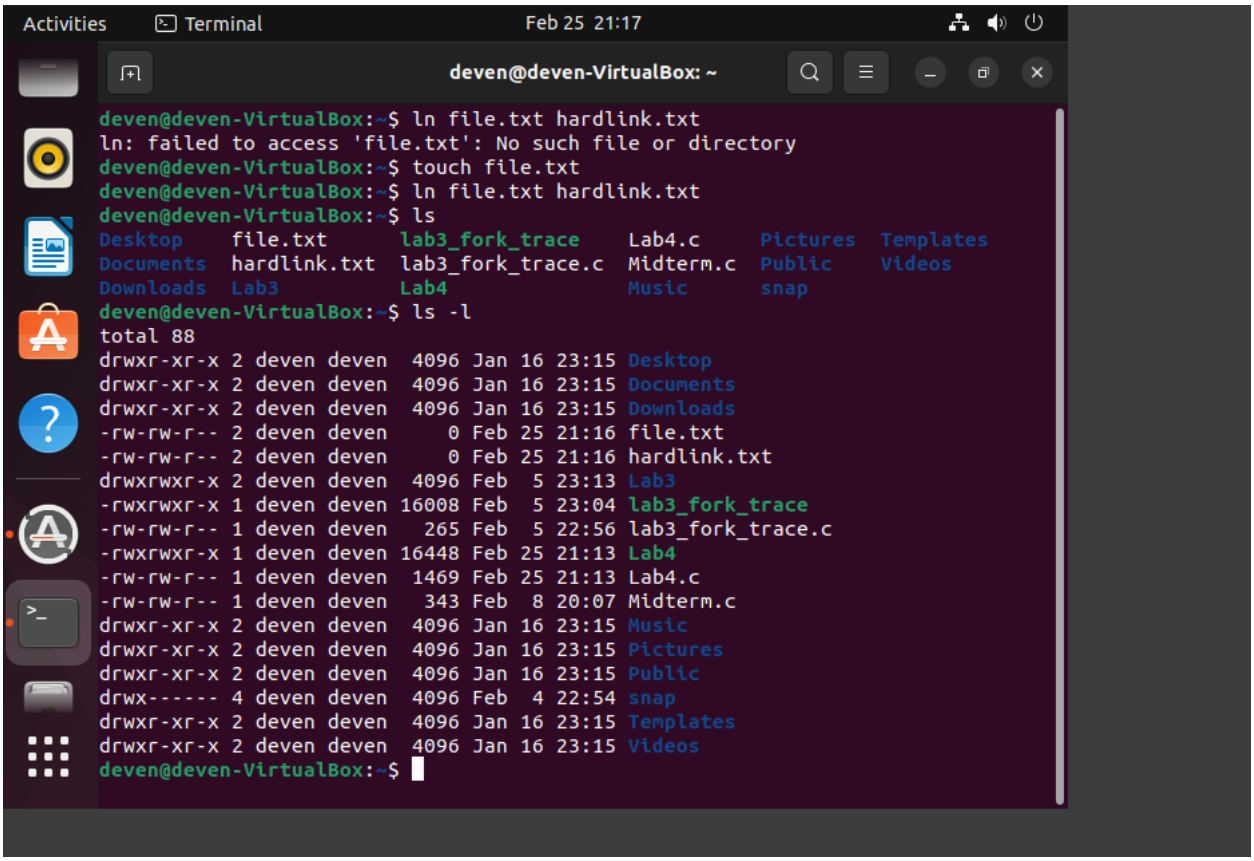
Lab 4 CS 470

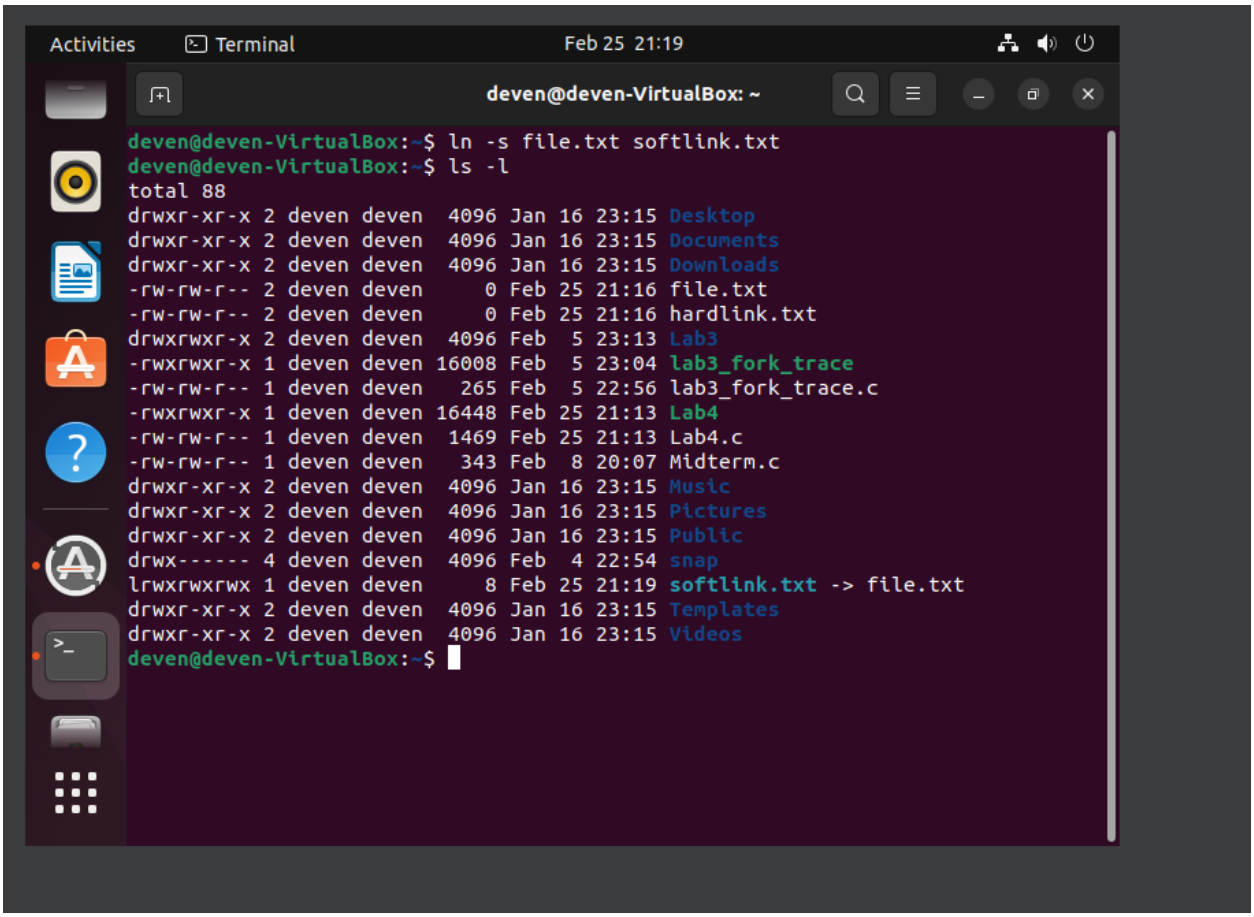
2/25/2023

Lab 4

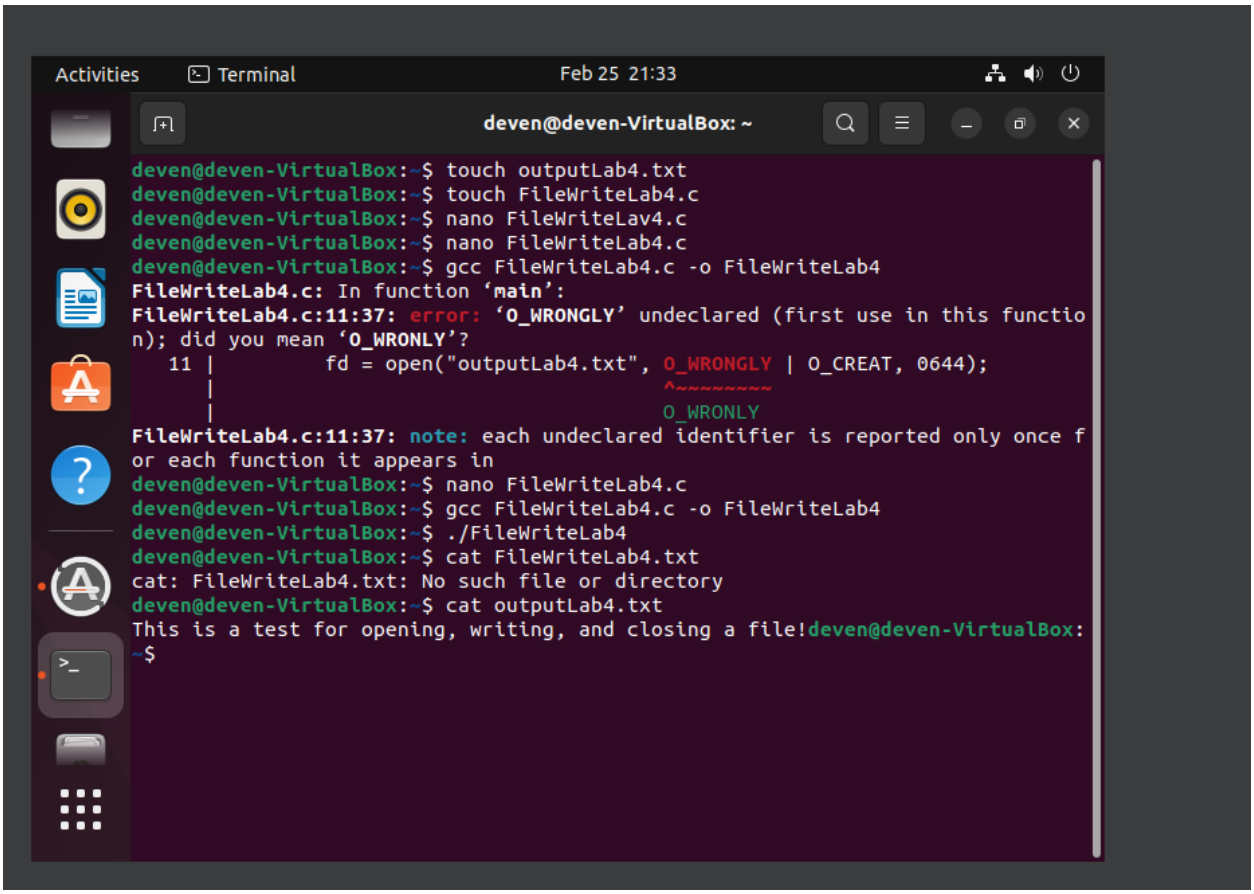


In the above picture I tackle question 2 of the Lab, unfortunately I did things a bit out of order, however all other questions will be included in this document. You will notice that initially the debugger/compiler flagged an error at the first instance of every null keyword in each method. This is because I forgot that for C, this keyword needed to be capitalized, after fixing it in nano, the code was compiled and executed.


Activities
Terminal
Feb 25 21:17
deven@deven-VirtualBox: ~
deven@deven-VirtualBox:~$ ln file.txt hardlink.txt
ln: failed to access 'file.txt': No such file or directory
deven@deven-VirtualBox:~$ touch file.txt
deven@deven-VirtualBox:~$ ln file.txt hardlink.txt
deven@deven-VirtualBox:~$ ls
Desktop file.txt lab3_fork_trace Lab4.c Pictures Templates
Documents hardlink.txt lab3_fork_trace.c Midterm.c Public Videos
Downloads Lab3 Lab4 Music snap
deven@deven-VirtualBox:~$ ls -l
total 88
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Desktop
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Documents
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Downloads
-rw-rw-r-- 2 deven deven 0 Feb 25 21:16 file.txt
-rw-rw-r-- 2 deven deven 0 Feb 25 21:16 hardlink.txt
drwxrwxr-x 2 deven deven 4096 Feb 5 23:13 Lab3
-rwxrwxr-x 1 deven deven 16008 Feb 5 23:04 lab3_fork_trace
-rw-rw-r-- 1 deven deven 265 Feb 5 22:56 lab3_fork_trace.c
-rwxrwxr-x 1 deven deven 16448 Feb 25 21:13 Lab4
-rw-rw-r-- 1 deven deven 1469 Feb 25 21:13 Lab4.c
-rw-rw-r-- 1 deven deven 343 Feb 8 20:07 Midterm.c
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Music
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Pictures
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Public
drwx------ 4 deven deven 4096 Feb 4 22:54 snap
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Templates
drwxr-xr-x 2 deven deven 4096 Jan 16 23:15 Videos
deven@deven-VirtualBox:~$



Pictured above are the creation of hard and soft links to the same file in the root directory.



And the final step of opening, writing to, and closing a document. I noticed similarities to how this functions in java while doing this assignment, however the addition of numerical codes to denote the different access permissions is something not done in the Java language, my thoughts are that this is because java does not communicate with the system and file structures at the same level as code executed from the terminal.