This lab should help you understand the system calls dealing with files and use gdb.

Note : Please go through the ppt placed in the lab 3 folder and understand the parameters that are passed to each system call and understand what the Operating system will do as a result (output) of the execution of the system call. Then attempt this Lab assignment. For using gdb, go through the tutorial placed in gdb folder.

1. Understand the ***copy*** program.

Run the program with various types of input files. Explain line by line what does it does.

What are the limitations of this ***copy*** program when compared the *cp* command of Linux?

1. Enhance the program to concatenate to the output file if the file already exists.
2. Create a program which does the function of move (*mv* command).
3. Create a program to remove the file (*rm* command)
4. Create a program which gets the attributes of the file given in the command line.
5. Learn to use gdb on one of your programs, use all the commands give in the tutorial placed in gdb folder.

* Go through the gdb file and try out the example.
* Use one of your files and practice how to do debugging. Create illegal memory access bugs in your program and go debugging.