CSE 4502 (SWE) [Operating Systems Lab]
Lab # 07

Lab Tasks:

1. Write two (2) C programs, '*server.c*' and *'client.c'*. The '*server.c*' file will take five (5) random integer values from the users and will run the Bubble Sorting algorithm to sort those values. After that, the '*server.c*' will write the sorted integer array to a shared memory. The *'client.c'* will now use that sorted value from the shared memory to search a given value using Binary search algorithm. Use the Shared Memory (IPC) technique.
2. Write a C program that generates the Fibonacci sequence. This program should work as follows: The user will enter on the command line the number of Fibonacci numbers that the program is to generate. The program will then create a child process that will generate the Fibonacci numbers. The generated numbers then will be passed to the parent process. When the child process finishes execution, the parent process will output the sequence generated by the child process. Because the parent process cannot begin outputting the Fibonacci sequence until the child process finishes, this will require having the parent process wait for the child process to finish.