**COMP3101 Assignment 2**

**Description**

Individual assignment for COMP3101 Assignment 2 to understand the use of fork(), wait(), and waitpid() in C.

**Student information**

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**Detailed description and compilation**

These system calls allow creation of several parent and child processes depending on the number of calls used. One fork call has 2^n outputs where n=1. This means that one parent process outputs one child process. The parent and child process execute simultaneously and the wait() and waitpid() allow the execution of these processes in a definite order. To compile, follow these instructions:

1. Open the terminal and go to the directory where your .c file is located
2. Use the GNU Compiler Collection (gcc) to compile the file

If the filename for example is assignment.c, the command goes as follows:

gcc -o assignment assignment.c

This command will generate an executable file by the name of assignment. Run the compiled program by executing the following command:

./assignment

Alternatively, you can download the code into an IDE and run it using the ‘Run’ button. Examples of compatible IDEs are DevC++, Visual Studio Code, and CodeBlocks.

**Source**

Please see(<https://www.hackerrank.com/contests/comp3101-assignment2/challenges/os-fork/leaderboard>) for proof of submission (Username: Keshawn\_McGrath)