

BLG312E Computer Operating Systems

Assignment 1 Report

Q1:

- a) 4 processes will be created.
- b) 4 'c' variables will be created. Each variable is for each process.
- c) There are four 'c' variables:
 - 1) For the main process: c = 5.
 - 2) For the first child of the main process: c = 3.
 - 3) For the child of the first child of the main process: c = 9.
 - 4) For the second child of the main process: c = 5.

Q2:

- ❖ In order to compile the code, enter **gcc "Source Code File.c" -o output** to the terminal. An output file will be created.
- ❖ Run the output file using this command: **./output**. For Windows, an executable file will be created. Run it using this command: **output.exe**.
- ❖ There will be 13 different processes that are created by the program. The output format of the program is as follows:
 - PID: The ID of the current process.
 - Children_PID(s): The children of the current process. Each ID is separated by comma.
 - Level: The level of the current process. The main process starts from level 1.
- ❖ An example output line for a main process:
 - **<PID: 593, Children_PID(s): 594, 595, 599, level: 1>**
- ❖ After the execution of the program ends, the program will wait for the return key to terminate. Press enter to terminate the program.