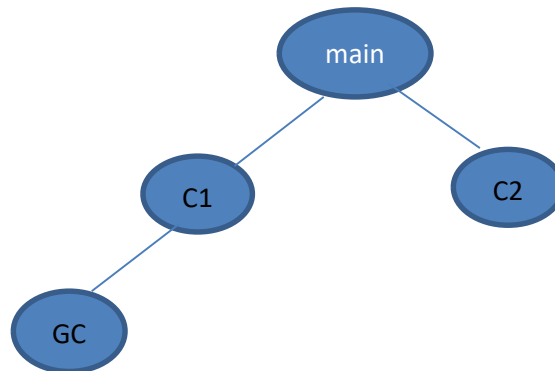


COMP 8567
Lab 4



- 1) Write a program lab4.c to perform the following:
 - a. Using two consecutive fork system calls, fork three processes from main
 - b. differentiate child 2 (C2) of the main process with **ls -1 /home/username** using `execl()`
 - **Note:** child 2 is one of the direct descendants of main that does not fork another process. Child 1 (C1) is the other direct descendant of main that forks another process (the grandchild (GC) of main)
 - c. The grandchild process must change the working directory to **/home/username/lab4** and create a file sample.txt with permissions 0777 (**Assume that /home/username/lab4 is already present**)
 - d. Process C1 must wait for its child process (GC) to complete execution and must differentiate and print the contents of /home/username/lab4 using `execv()` from its present working directory **only upon the normal exit of the grandchild process**

Appropriate messages should be printed to demonstrate the run of the program.

Submission:

Upload lab4.c