# Process Activity

[Make sure to leverage your sample programs]

Program 1: [10 points]  Fork and Wait

* Create a program (forkchildren5.c) that will fork 5 children
* Each children will print a message "I am child [pid number] and this is message num [num]" .  Where [num] is the message number.
* The children will repeat this 6 times (i.e. print 6 messages) and sleeping 5 seconds in between prints.
* Then the children will exit.
* The parent process will wait for children to finish and print when each of the 5 childs exit a single message "Children [pid] exiting".  Where [pid] is the PID of that children. Hint: You need to use wait (waitpid) system call. There should be 5 of these messages.
* The parent process should print its own pid at the beginning and end.  "Parent PID at entry is [pid]"  "Parent PID at exit is [pid]".

Program 2: [10 points]  Fork and Exec

5 points for Makefile

* Create a program(forkchildren2.c) that will fork off two children.
* One child will run the “ls -l” command.
* The other will run “cat forkchildren2.c”.
* The main program will wait for all the children to finish and then print a note saying it is finished and then it will end.
* No pipe is needed for this assignment, each child is separate.

Make sure to provide the Makefile to built both programs in your ZIP package.