For this exercise, you are to implement a simple “shell” program, similar to a simple bash shell. Call your shell uish (for “University of Idaho shell). This program will utilize parts of your previous two programs.

- When invoked it should produce a prompt: $ 
- You should be able to enter any Unix/Linux command name, including options, and the program should execute properly. Your shell should parse the input, then execute the command using the fork/exec mechanism.
- Your shell should wait until the command completes, then it should issue another prompt and be able to accept another command.
- Your shell should be able to handle multiple commands on a line, like the regular shell. For example, typing ls -l; ps should first execute the ls -l command, followed by the ps command.
- Your shell should support “background” execution. That is, if the command contains the ’&’ (ampersand) at the end, your shell should launch the command, but return immediately, displaying the prompt and ready to accept another command.