

In this lab, we used cumulative knowledge from previous labs, including using system calls, creating child processes, and using interprocess communication. The task was to write a shell program in C that simulates the standard 'command line' found on most machines. I believe some of the most difficult parts of this lab came from parsing the user's input accurately so that the OS could use the information to execute the desired command.

The most important concept I learned during this project is how the operating system handles different commands and executions within a shell program, such as how background processes are executed differently than standard commands. I also learned the difference between program commands and built-in commands. These concepts emphasized the importance of why children processes are used and needed. As well as how to implement them into my designs in the future.