

## **Shell Lab Report**

Operating Systems

Elsayed Akram Elsayed 16

## **Overview**

A shell is simply a program that conveniently allows you to run other programs. Here is a simple Unix-like shell program.

## **Overall Organization & Major Functions**

- 1. read\_line(): Read command line and add '\0' to convert it to C string.
- 2. split\_line( cmd\_line ): Split command line into arguments and check for background processes flag.
- 3. execute\_cmd( args ): Executing command arguments by forking child process.

## **Sample Runs**

```
CMakeCache.txt cmake_install.cmake Makefile shell.cbp
CMakeFiles logger.log
                           shell
total 72
-rw-rw-r-- 1 elsayed elsayed 23112 Nov 8 15:07 CMakeCache.txt
drwxrwxr-x 5 elsayed elsayed 4096 Nov 9 23:01 CMakeFiles
-rw-rw-r-- 1 elsayed elsayed 1535 Nov 8 15:07 cmake_install.cmake
-rw-rw-r-- 1 elsayed elsayed
                               0 Nov 9 23:01 logger.log
-rw-rw-r-- 1 elsayed elsayed 5282 Nov 8 15:07 Makefile
-rwxrwxr-x 1 elsayed elsayed 21368 Nov 9 22:26 shell
-rw-rw-r-- 1 elsayed elsayed 5104 Nov 8 15:07 shell.cbp
shell.cbp Makefile
                    cmake_install.cmake CMakeCache.txt
shell
          logger.log CMakeFiles
>>
```





