Operating Systems
Lab 1 (Simple Shell)

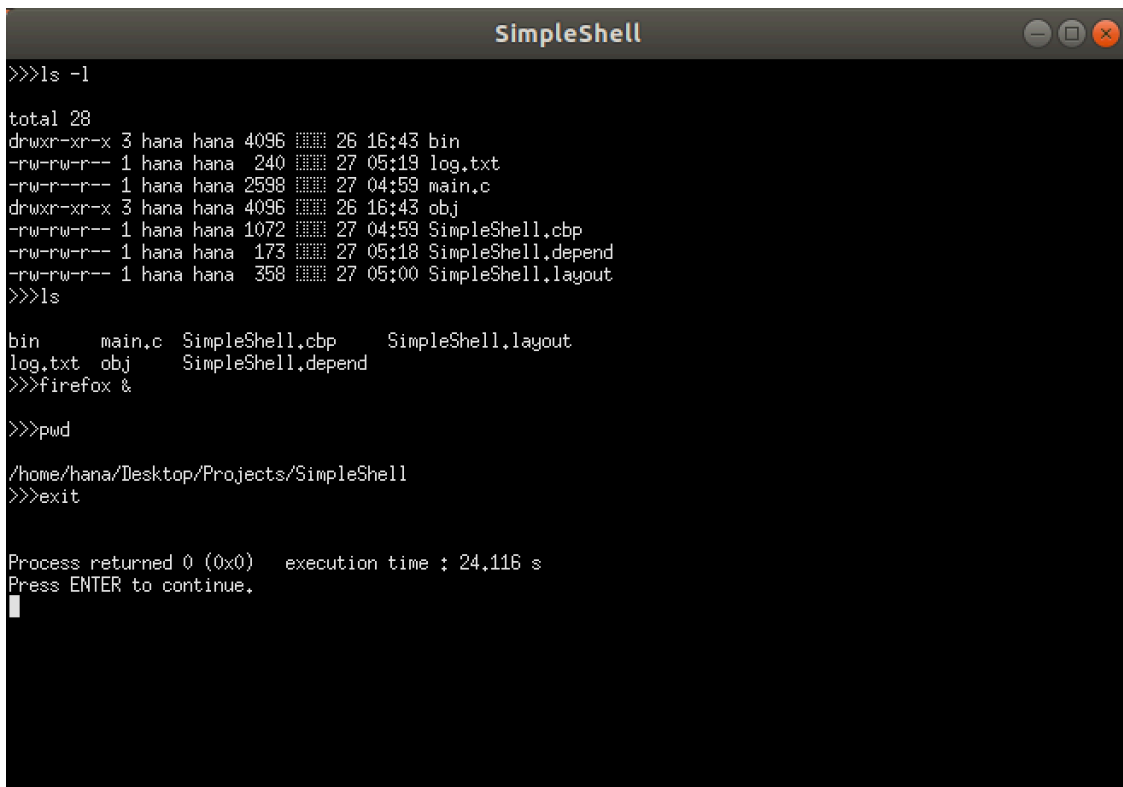| Name	Hana Mahmoud El Goweini
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Overall organization and major functions used:

The code is divided into function and the main function. The main function calls a function to read the input from user first and then calls another one to parse the input and splits it into the command and its arguments. After that, the command my be executed using the fork() instruction.

Some functions:

1. **int parseCommand():** It takes the command given by the user and splits it after every space, putting each word in a 2D array of characters and ends the array with a null character.

2. **void isBackgroundProcess() :** It checks whether the process is a background process by checking if there is a '&' in the command. If so, a flag is set to 1 and the next process may be executed normally without waiting for this one to finish.

3. **void writeToLog() :** When a child process terminates, it writes in a log file that it was terminated.

Sample Run: