

**** READ ME FILE ****

Overview:

This is a small mock linux shell which can be run through a linux terminal. It parses user input to execute linux commands and a few built in commands. The implemented built in commands are as follows: `cd`, `clr`, `dir`, `environ`, `echo` and `help`.

MakeFile:

To compile the `main.c` file you will have to run the `makefile` included. To compile correctly make sure the `makefile.sh` / `main.c` / `builtin.h` / `builtin.c` files are all located in the same path location before executing `makefile.sh`. The compiler will return an executable file called `MockShell`

Builtin Commands:

`cd`

Takes in a path as the argument. If the directory exists it will change to the directory specified. Will also set the `PWD` environment variable to the current path.

`clr`

Clears the screen by printing a newline 60 times.

`dir`

Prints all of the directories and files in the current directory.

`environ`

Prints out the current environment variables for: `LANG`, `PWD`, `USER`, `DESKTOP_SESSION`, `HOME`, `XDG_SESSION_TYPE`, `XDG_SESSION_DESKTOP`, `XDG_CURRENT_DESKTOP`, `SHELL`, `LOGNAME`, and `PATH`.

`echo`

Takes in `ARGS` as a string and prints everything after the `echo`. Will be stopped by pipes and/or input or output redirection

`help`

Takes in an `ARG` that prints the help options for the built in commands created

Notes:

Figured out the problem with the pipe program waiting. Since I was creating two children in the same parent I had to add the `wait()` to the parent in the second child to correctly wait for both children processes to end.