

Team

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Purpose

The purpose of this assignment is to create a working command line shell program.

Available Resources

We are given the following template code:

- lex.c
- hex.c

Design

Requirement 1

- call exit

Requirement 2

- create child process
- child runs command
- parent waits for child to finish
- if return val==-1, print error msg via perror and exit(-1)
- if command is unrecognized, do not print any message

Requirement 3

- create child process
- child runs command with arguments
- parent waits for child to exit

Requirement 4

- create child process
- child runs command with arguments
- parent does NOT wait for child to exit
- deal with zombies using a handler
- if the shell exits while a child is running in the background, the child will terminate when it is finished.

Requirement 5

- locate '>' symbol
- remove '>' and output filename from argument list
- write output to file using freopen()

Requirement 6

- locate '<' symbol
- remove '<' symbol and input filename from argument list
- overwrite stdin to be file via freopen()