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Shell

First : how the code is organized and its main functions

the program is divided into 3 files : main.c , parsing.c and logging.c

1) main.c : contains functions

- a) batch : for batch mode
- b) interactive : its the shell loop
- c) execute : to use some parsers and executes command in background or in foreground
- d) cexecute : it uses env path to execute the commands
- e) varHandle: to handle variables assignments
- d) varPrint : to replace \$var with it value
- f) findIndex: to find the variables in var array

2)parsing.c : functions

- a)trim : for trimming spaces at the start and the end
- b)isaccepted: to decide if variable assignment is legal or not
- c)parsePathArg: is to get the file name and its argument from the command
- d)getpath: is to get env paths
- e) echo: to parse echo command to executes it
- d) cd: to parse cd command to execute it

3)logging.c : functions

- a)readHistory: is to read history from history file which created in HOME directory
- b)writeHistory: to write the commands in history.txt file in HOME directory
- c)handler :is to write child has been terminated in log.txt which is created in HOME directory

Second : how to compile the code

in terminal:

- 1- change directory to the project folder (cd
- 2- type make
- 3- type ./shell (where shell is the name of the compiled file)