Project 3: Program with a menu

3/14/2022

Attempt 1 ⌄

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⌄ **Details**

In a learning environment, it's not uncommon to wind up crowded directories filled with a number of files for testing, empty files, and even empty directories. In this project, it is your task to create a command line interface that will continually prompt a user to see if they would like to:

1. List the files in the current directory
2. Display the number of empty files in a given directory and then list those files.
3. Navigate to another directory specified by the user and then do a "ls -l" of the current working directory.
4. Prompt the user for a word and then list the number of files in the current working directory that contain that word (inside the files, not in their name).
5. Provide a directory name and then a series of filenames to move into that directory.
6. Exit the program

This should be done in a menu that clearly lists a menu and lets the user enter a selection (1 - 6). Once they have done so, you should prompt them for the other information (if necessary) for that request.

In some situations, your program should provide an error message:

1. If a user provides a file or directory name that does not exist, prompt the user with an error message and reprompt the user for the proper file names. It should also log an error message by appending to a file "logerr.txt" an appropriate message. Note that you do not need to give an error message if one of the move options does not exist (option 5)
2. Your script should terminate with an error message if an input to the menu choice contains a |. It should also log an error message by appending to a file "logerr.txt" an appropriate message.

Also I want your program to be "polite". That is, capture the SIGINT signal and call a function to say goodbye and then terminate.

I suggest as in the previous project, to do this incrementally.

1. Implement your menu and have it take selections but do nothing else.

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Assignment

5. Implement option 4 and 5
6. Implement capture the SIGINT signal (Ctrl-C) sent by user and output an appropriate message before terminating.

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