COP 4600 - Homework 5

Due April 11, 2022

Total points: 4 + 1 bonus points

This homework requires the extension of the shell program from HW3 with several new, file system related commands. The program you are submitting must have all the functionality of HW3 as well.

Compilation: The objective of this homework is for you to learn how to implement functionality with the basic APIs. This is not about how to find some libraries that perform these tas a recent Ubuntu system by simply

```
gcc mysh.c
```

or

```
g++ mysh.cpp
```

No external librar are acceptable.

Running: The pro ional files. Please try it out if you ca

If the program do e maximum points accessible

File referenc

The new commar ou should implement both a "/". The relative paths should be relative to the current directory in which you started the project.

Let us assume you started your program in: /home/john, and there is a directory /home/john/other. If you say

```
maik other/file.txt
```

the file will be created in the directory /home/john/other

New built-in commands

Your shell should implement the following new commands:

```
#  dwelt file
```

If a regular file exists with that name, it should print
`Dwelt indeed.`

If the file is a directory, it should print:
`Abode is.`

If there is no file c
`Dwelt not.`

```
# maik file
```

This command cr . If the file already exists, it s

```
# coppy from-
```

Copy from-file int , if the destination file ex .

Extra credit (1

```
# coppyabode
```

Copy the directory source-dir and all its subdirectories, as a subdirectory of target-dir.

What to submit:

- The code as a single .c or .cpp file.
- If you implemented the extra credit part: a text file describing the syntax of the implementation, and example of use.