Assignment 1 – Copy Files

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I implemented the solutions using the programming language C. The reason I chose to use C is because it has simple read and write options that allowed for a simple straight forward execution to the solution.

I began by creating file pointers, arrays that will contain the name of the read/write files, a char variable that will hold single character while reading, and two additional integer variables to help loop for valid input and check user prompts.

I then move into opening the read file. The file provided with the ZIP in the submission that I used is "text.txt." The file is name is read into the array and used to open the file. The file is confirmed opened by checking if it is equal to NULL. Based on if the file is opened or not the user will be prompted with the choice of a decision and that decision will then be executed.

The program will then take the input for a name of the file to write to. This will create the file. The file will then be checked again if it was created by comparing if the file is equal to NULL. If NULL, the user will be prompted with decisions and the decision will be executed accordingly.

The C variable will then read a single character at a time from the Read file, and then it will write that character into the write file. Once the variable reads the EOF indicator then the loop will end, and the C variable will be checked again to decide which prompt to notify the user with.

The files will then be closed, and the program will end.

Samples:
    Sample input file: text.txt
    Sample output file: new.txt