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Testing my program:

I test my using a whole-system approach. For all tests, I stored the results in a file called test1 and compared it to the results of cat.

Test 1: ./dog hi.txt

This scenario tested my program with a simple text file. I stored the result into a file named test and ran diff with the result of cat.

Test 2: ./dog -

This scenario tested my program with the tag "- ". I test it if the program copies the input from standard input.

Test 3: ./dog hi.txt large_text.txt

This scenario tested 2 things. First this tested if my program can handle multiple arguments. Second it tested if my program can handle larger text files.

Test 4: ./dog Design.pdf

This scenario tested if my program worked with a file that is not a text file.

Test 5: ./dog

This scenario tested if given no argument, the program will copy from standard input.

Test 6: ./dog - hi.txt -

This scenario test if the program will print the different input in the right order.

Test 7: ./dog hello.txt test_dir hi.txt

This scenario tested the error checking functions of my program. hello.txt is a file that does not exist in my directory and test_dir is a directory. I check to see if the correct error is being displayed. This also check if the program will continue to execute after displaying the error.

Test 7: ./dog perm

Perm is a file with read and write permission turned off. This is to test if my program will catch the error with files that does not have the read or write permissions turned on

This scenario tested the error checking functions of my program. hello.txt is a file that does not exist in my directory and test_dir is a directory. I check to see if the correct error is being displayed. This also check if the program will continue to execute after displaying the error

Write Up Question:

My code has a function that takes a file name and write that content name to standard output. The way files are handling different than standard input is simply passing different arguments into my function. For files, I am passing in the name of the file into my function that writes the file. For standard input, instead of reading from a file name, I read from `STDIN_FILENO` since that opens standard input. I believe that this is an example of modularity since I have a separate functions that can be used by different modules.