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Introduction

This assignment tasked us with learning how to use Java I/O. This assignment wanted us to take input from any amount of files using java command line arguments. We then had to take the text and concatenate them into one large string which we then performed tasks on. Overall, I enjoyed this assignment as it allowed me to learn more about Java and more importantly HashMap.

Part A & B

Part A and B was more about the actual code so I don’t have to write much about them. I have fully documented my design using in line comments and Javadoc comments to make it easy to follow.

Part C

Part C asks us to answer some questions about our code to learn what it would output when we input certain things.

No filename is given as an argument?

My program simply checks and see’s that there has been no input. It then responds by sending the following message.

A close up of a black background

Description automatically generated

There is only one argument "X" but no file of that name exists?

A close up of a sign

Description automatically generatedMy program would check if the file exists using the file.exists() function and then when it see’s that it doesn’t. It would print out that the file does not exist.

All given filenames point to existing, but empty text files?

A screenshot of a social media post

Description automatically generatedMy code would open the files and then using an if statement, see that they are in fact empty. It would then print out that the file is empty

Two filenames are given, and the corresponding text files contain the strings "abc" and "de", respectively?

This is a good example. My code would concatenate the two strings and then get one string of abcde. It would then calculate the frequencies for each letter and store them inside the HashMap. It would then print them out in the correct format as 0.2 for every character.

A screenshot of a social media post

Description automatically generated