Credit Name: CSE2130

Assignment Name: wordcount

How has your program changed from planning to coding to now? Please explain?

1.Create a BufferedReader object: The first line of the code initializes a BufferedReader object as null, which will be used to read the contents of the file.

2.Initialize character count and word count: The next two lines of code initialize the character count and word count to zero.

3.Try-catch block: The program is enclosed within a try-catch block to handle any possible exceptions that might occur during file handling.

4.Create a FileReader object: In the next line, a FileReader object is created to read the contents of the file.

5.Read the first line: The next line of code reads the first line of the file into a string variable called "currentLine".

6.Loop through each line: A while loop is used to read each line of the file and perform the following operations:

7.Count the number of words: The split() method is used to separate the words in the current line based on spaces, and the number of words is counted and updated in the "wordCount" variable.

8.Count the number of characters: A for-each loop is used to iterate over each word in the current line, and the length of each word is counted and updated in the "charCount" variable.

9.Read the next line: The next line of the file is read into the "currentLine" variable, and the loop continues until there are no more lines left in the file.

10.Calculate the average word length: The average word length is calculated by dividing the character count by the word count.

11.Print the results: The final block of code prints the character count, word count, and average word length to the console.

12.Close the reader: The finally block of code ensures that the BufferedReader object is closed to free up system resources.