<u>Text File Analysis Project</u>

Program contains 3 different functions. They are:

main(): Function that runs the whole project.

letterFromPosition(int): takes integer representation of a letter and return that particular letter.

<u>Code Operation</u>

1) Prompts user for name of text file (including extension of the file, example: test.txt).
2) Allocates recommended memory to a variable to hold file content using "malloc".
3) Reads file into the variable (returns "Error: Could not find your file" if not able to read file).
4) Scan through file content and store each word into an array.
5) During scanning, programs counts:
   i. The total number of words in file.
   ii. The total number of characters in the file.
   iii. Number of times each letter starts difference words in the file.
6) Programs checks letter that starts most words with the help of the **letterFromPosition** function.
7) Finally, program prints the statistics nicely.

<u>Major Variables</u>

1) **fileName:** holds file name taken from user.
2) **fileContent:** holds content read from text file.
3) **filePointer:** pointer to file.
4) **wordCount:** holds total number of words in file.
5) **characterCount:** holds total number of characters in file.
6) **mostWordStart:** holds letter that starts most words in file.
7) **wordStartCount:** holds the count of the letter that starts most words.
8) **WordStarterMonitor:** array of how many times each letter starts different words.