

## **The report of the assignment 2: Vowel Count Using String Operations**

Corrine Tseng

The provided C programming code is designed to read text data from a file, process it, and perform various analyses. It utilizes file handling operations, string manipulation functions, and memory management techniques to achieve its objectives. The primary tasks include converting text to uppercase, counting occurrences of contiguous letters, and tallying vowel counts. First of all, the start of the code is to include standard C libraries such as 'stdio.h', 'stdlib.h', 'string.h', and 'ctype.h' for fractionalities. Then, it's definitely declare variables that are going to be used in the following codes. Secondly, I followed the instructions that the teacher gave us to finish the assignments.

Specifically, I think that counting the contiguous letters in the content is very difficult. So I turned to the solution of the old test from last year to seek some hints. I found that we can use a one-character string to compare and use the function 'strspn()' to finish counting characters. In addition, we use 'switch case' to count the vowels. Finally, release the memory space of the buffer.