Assignment2 Report

In this assignment, we are tasked with converting all contents of a file to uppercase and calculating character counts, among other things. Firstly, we open a text file named "Gift_of_Magi.txt" to read its contents. However, if the file does not exist, an error message is outputted, and the program terminates. Next, we read each character from the file, convert letters to uppercase, and simultaneously calculate character counts while performing memory allocation. Then, the read content is stored in "result.txt" and the first 800 characters are outputted. Following that, using conditional statements, we calculate the number of consecutive letters and categorize them based on different consecutive counts. Finally, we calculate the occurrences of vowels (A, E, I, O, U). The `strpbrk` function is used to search for each vowel in the buffer and count its occurrences. The results are outputted to fulfill the requirements of the assignment.