

S.No: 35	Exp. Name: Write a C program to Count number of Characters, Words and Lines of a given File	Date:2023-06-20
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Aim:

Write a program to count number of **characters, words** and **lines** of given text file.

- open a new file "DemoTextFile2.txt" in write mode
- write the content onto the file
- close the file
- open the same file in read mode
- read the text from file and find the characters, words and lines count
- print the counts of characters, words and lines
- close the file

Source Code:

countCharWordLines.c

```
#include <stdio.h>
void main() {
    FILE *fp;
    char ch;
    int charCount = 0, wordCount = 0, lineCount = 0;
    fp = fopen("DemoTextFile2.txt", "w");
    printf("Enter the text with @ at end : ");
    while ((ch = getchar()) != '@')
    {
        putc(ch, fp);
    }
    putc(ch, fp);
    fclose(fp);
    fp = fopen("DemoTextFile2.txt", "r");
    do
    {
        if ((ch == ' ') || (ch == '\n') || (ch == '@'))
            wordCount++;
        else
            charCount++;
        if (ch == '\n' || ch == '@')
            lineCount++;
    } while ((ch = getc(fp)) != '@');
    fclose(fp);
    printf("Total characters : %d\n", charCount);
    printf("Total words : %d\n", wordCount);
    printf("Total lines : %d\n", lineCount);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the text with @ at end : Arise! Awake!
and stop not until

the goal is reached@
Total characters : 43
Total words : 10
Total lines : 3

Test Case - 2
User Output
Enter the text with @ at end : All power is with in you
you can do anything
and everything@
Total characters : 48
Total words : 12
Total lines : 3