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

```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