

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