C program

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\* C program to count no of lines, words and \*

\* characters in a file. \*

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#include <stdio.h>

int main()

{

FILE \*fp;

char filename[100];

char ch;

int linecount, wordcount, charcount;

// Initialize counter variables

linecount = 0;

wordcount = 0;

charcount = 0;

// Prompt user to enter filename

printf("Enter a filename :");

gets(filename);

// Open file in read-only mode

fp = fopen(filename,"r");

// If file opened successfully, then write the string to file

if ( fp )

{

//Repeat until End Of File character is reached.

while ((ch=getc(fp)) != EOF) {

// Increment character count if NOT new line or space

if (ch != ' ' && ch != '\n') { ++charcount; }

// Increment word count if new line or space character

if (ch == ' ' || ch == '\n') { ++wordcount; }

// Increment line count if new line character

if (ch == '\n') { ++linecount; }

}

if (charcount > 0) {

++linecount;

++wordcount;

}

}

else

{

printf("Failed to open the file\n");

}

printf("Lines : %d \n", linecount);

printf("Words : %d \n", wordcount);

printf("Characters : %d \n", charcount);

getchar();

return(0);

}

**Sample Output**

Consider a text file named wolf.txt with the following content:

Help Help,

Go away you naughty wolf.

With the above file as input, the program will be show the result as below

Enter a filename :wolf.txt

Lines : 2

Words : 7

Characters : 30