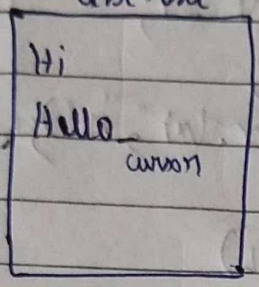
C_130 ⇒ C Program to Count number of lines in a file

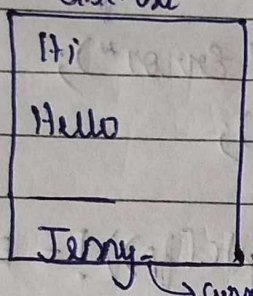
* Suppose in a file if we have many lines like 3 or 4, 5 ... the output should print the number of lines in the program.

Eg: ①



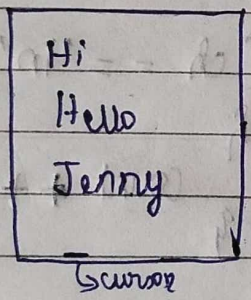
→ 2 lines.

Eg: ②



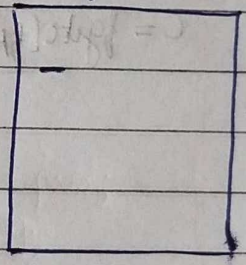
→ 4 lines.

Eg: ③



→ 4 lines.

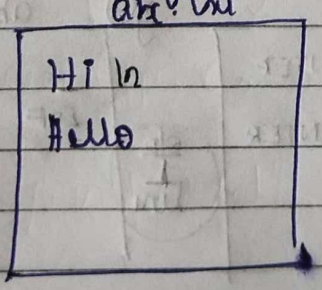
Eg ④



→ 1 line.

* So we should write a program according to that.

* We put '\n' for new line and it is done by 'ENTER'



→ only one '\n' but we have two line, So how to count the lines.

* As soon as we get a new line we increase the count by 1 and put is a loop and we read till end of file.

Eg ①

abc.txt

Hi ↵ ENTER
Hello
EOF

```
FILE *fp = NULL;
int count = 1;
char ch;
fp = fopen("abc.txt", "r");
if (fp == NULL)
{
    printf("Error");
    exit(1);
}
while ((ch = getc(fp)) != EOF)
{
    if (ch == '\n')
    {
        count++;
    }
}
fclose(fp);
printf("%d", count);
```

Op
2 lines

When we press ENTER we go to next line

// for(c = fgetc(fp); c != EOF;
c = fgetc(fp))

Eg: ②

abc.txt

Hi ↵ ENTER
Hello ↵ ENTER
EOF

Op
3 lines

Eg ③

abc.txt

EOF

Op
1 line

* Now we want to count both the number of characters and number of lines in a file.

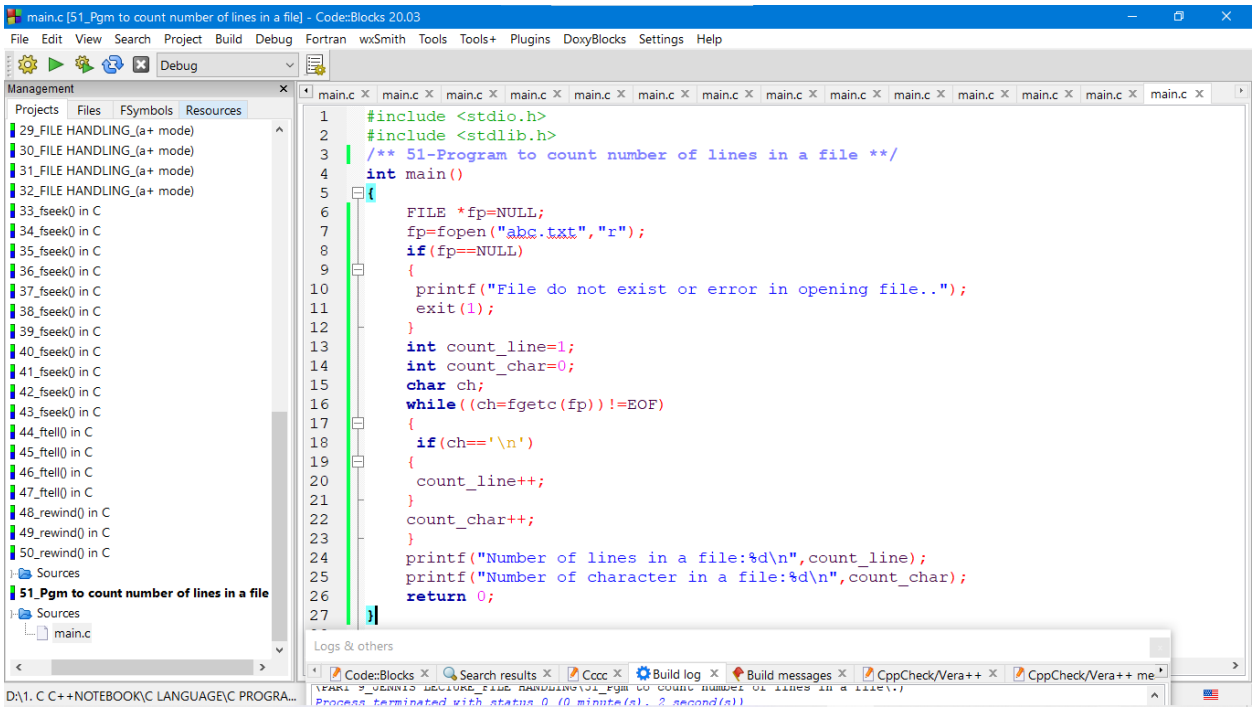
abc.txt

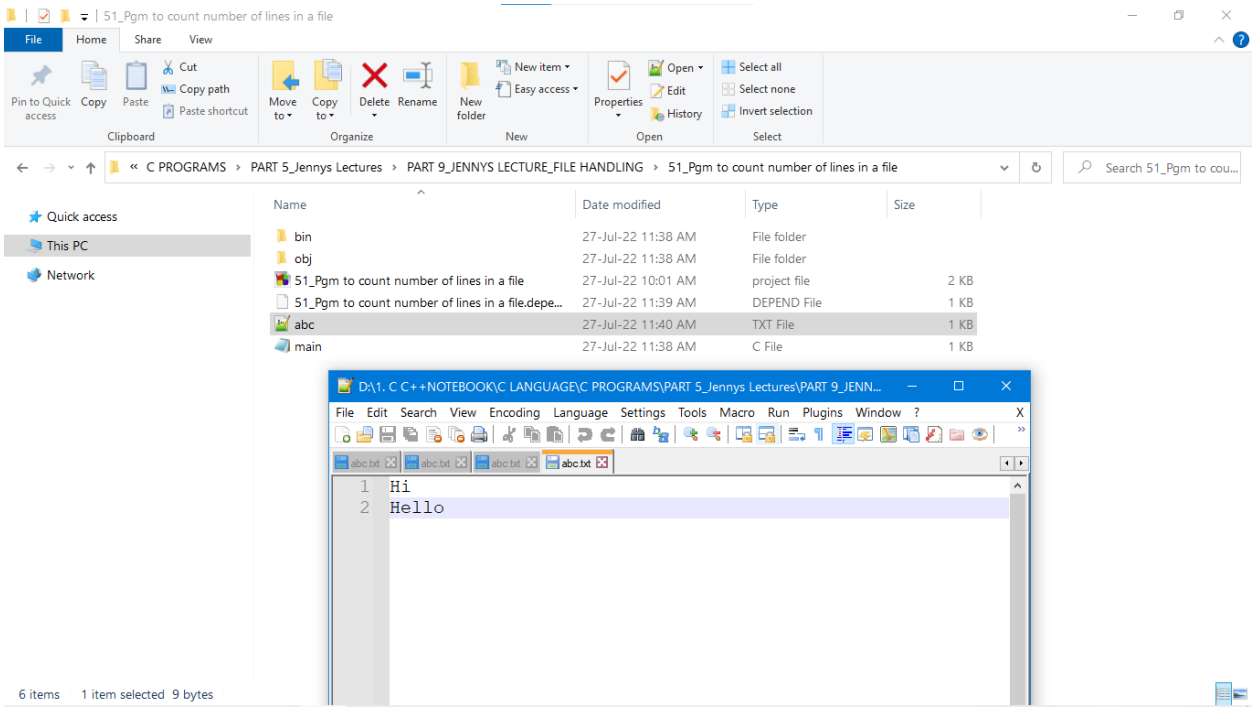
Hii ENTER
Hello
EOF

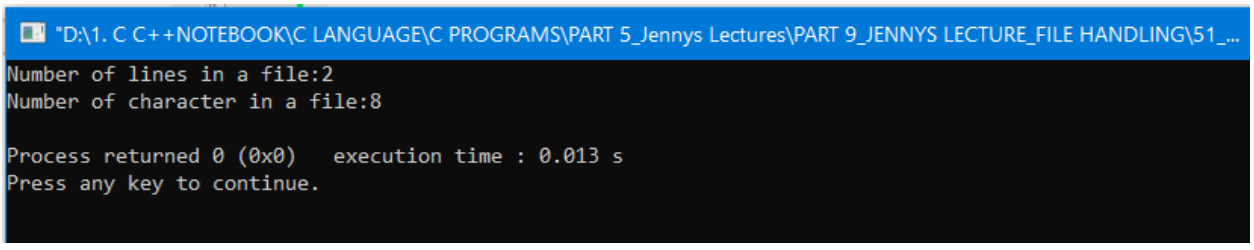
Eg ④:-

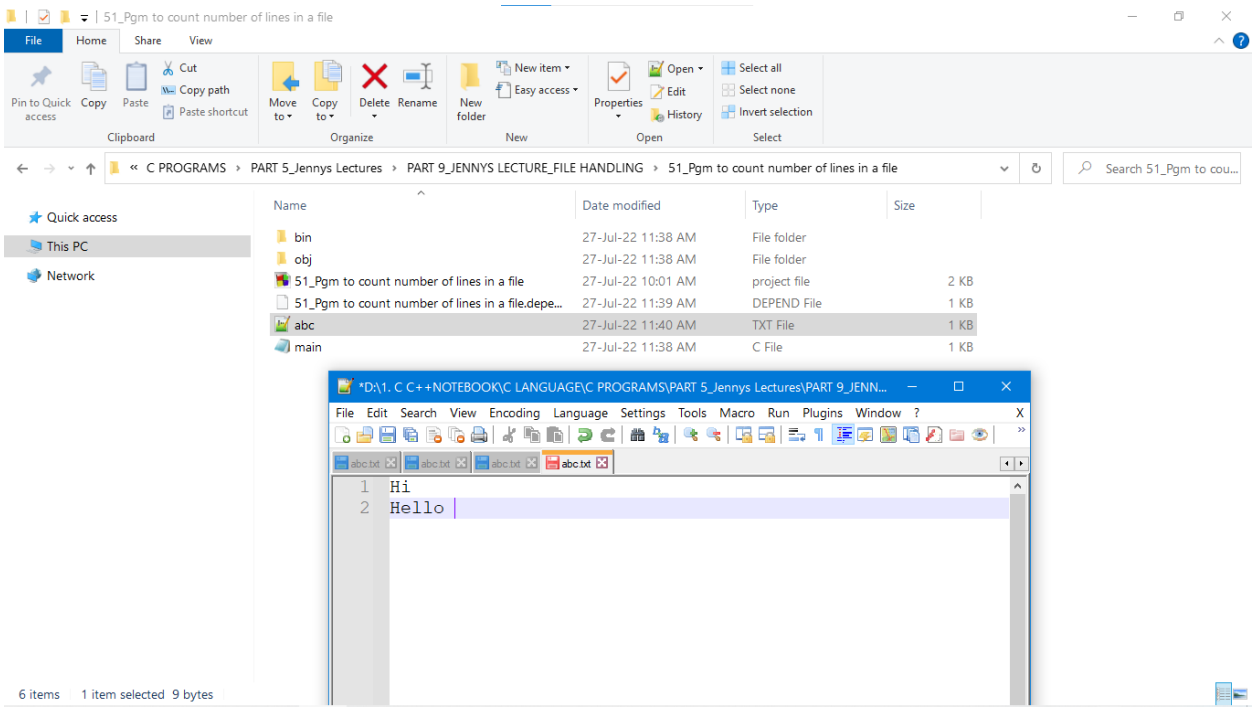
```
FILE *fp = NULL;
int countline = 1;
char ch;
int countchar = 0;
fp = fopen("abc.txt", "r");
if(fp == NULL)
{
printf("File do not exits or error");
exit(1);
}
while((ch = fgetc(fp)) != EOF)
{
countchar++;
if(ch == '\n')
{
countline++;
}
}
fclose(fp);
printf("No of lines in file is %d", countline);
printf("No of characters is file is %d", countchar);
}
```

O/p
2 lines
7 characters

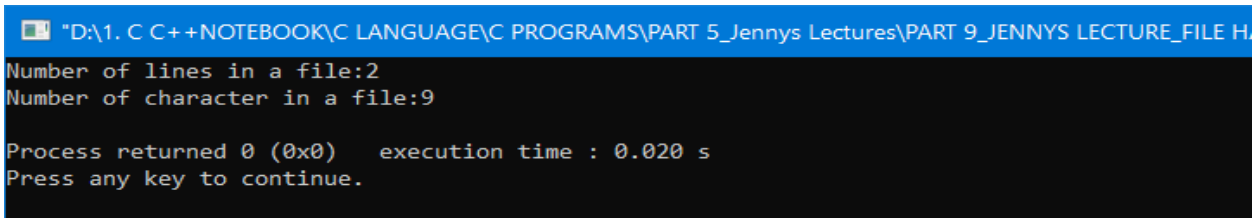

main.c [51_Pgm to count number of lines in a file] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
Management
Projects Files FSymbols Resources
29_FILE HANDLING_(a+ mode)
30_FILE HANDLING_(a+ mode)
31_FILE HANDLING_(a+ mode)
32_FILE HANDLING_(a+ mode)
33_fseek() in C
34_fseek() in C
35_fseek() in C
36_fseek() in C
37_fseek() in C
38_fseek() in C
39_fseek() in C
40_fseek() in C
41_fseek() in C
42_fseek() in C
43_fseek() in C
44_ftell() in C
45_ftell() in C
46_ftell() in C
47_ftell() in C
48_rewind() in C
49_rewind() in C
50_rewind() in C
Sources
51_Pgm to count number of lines in a file
Sources
main.c
#include <stdio.h>
#include <stdlib.h>
/** 51-Program to count number of lines in a file **/
int main()
{
FILE *fp=NULL;
fp=fopen("abc.txt","r");
if(fp==NULL)
{
printf("File do not exist or error in opening file..");
exit(1);
}
int count_line=1;
int count_char=0;
char ch;
while((ch=fgetc(fp))!=EOF)
{
if(ch=='\n')
{
count_line++;
}
count_char++;
}
printf("Number of lines in a file:%d\n",count_line);
printf("Number of character in a file:%d\n",count_char);
return 0;
}
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
CppCheck/Vera++ me
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRA...
Process terminated with status 0 (0 minute(s), 2 second(s))

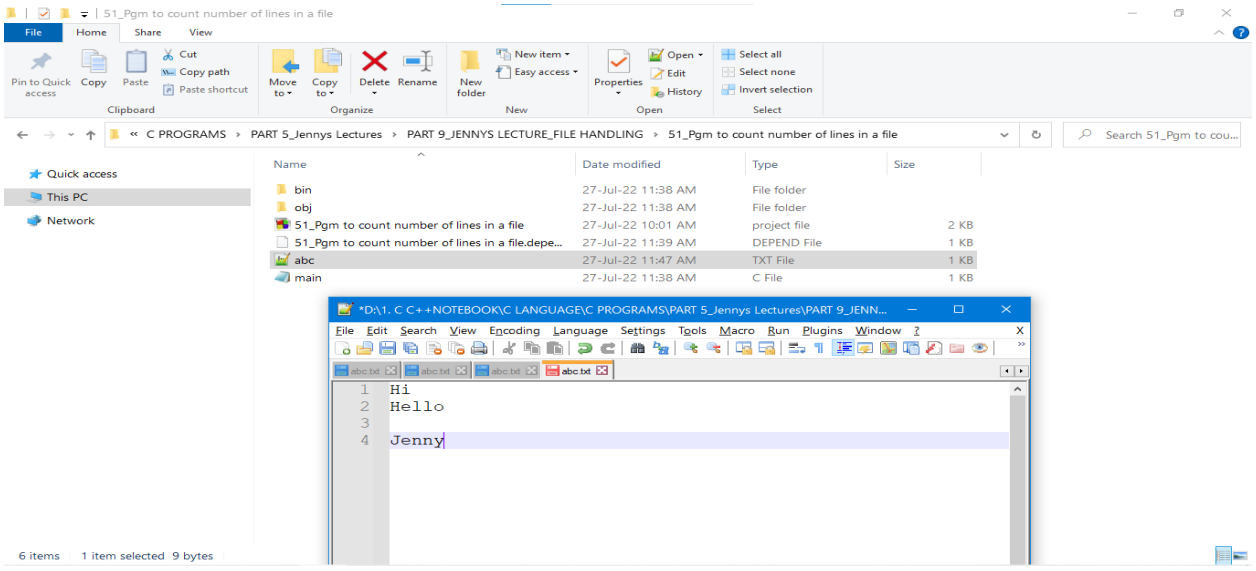

51_Pgm to count number of lines in a file
File Home Share View
Pin to Quick access Copy Paste Cut Copy path Paste shortcut
Clipboard
Move to Copy to Delete Rename
Organize
New folder New item Easy access
New
Properties Open Edit History
Open
Select all Select none Invert selection
Select
« C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 51_Pgm to count number of lines in a file
Search 51_Pgm to cou...
Quick access
This PC
Network
Name Date modified Type Size
bin 27-Jul-22 11:38 AM File folder
obj 27-Jul-22 11:38 AM File folder
51_Pgm to count number of lines in a file 27-Jul-22 10:01 AM project file 2 KB
51_Pgm to count number of lines in a file.depe... 27-Jul-22 11:39 AM DEPEND File 1 KB
abc 27-Jul-22 11:40 AM TXT File 1 KB
main 27-Jul-22 11:38 AM C File 1 KB
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENN...
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
abc.txt
1 Hi
2 Hello
6 items 1 item selected 9 bytes


"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\51_...
Number of lines in a file:2
Number of character in a file:8
Process returned 0 (0x0) execution time : 0.013 s
Press any key to continue.

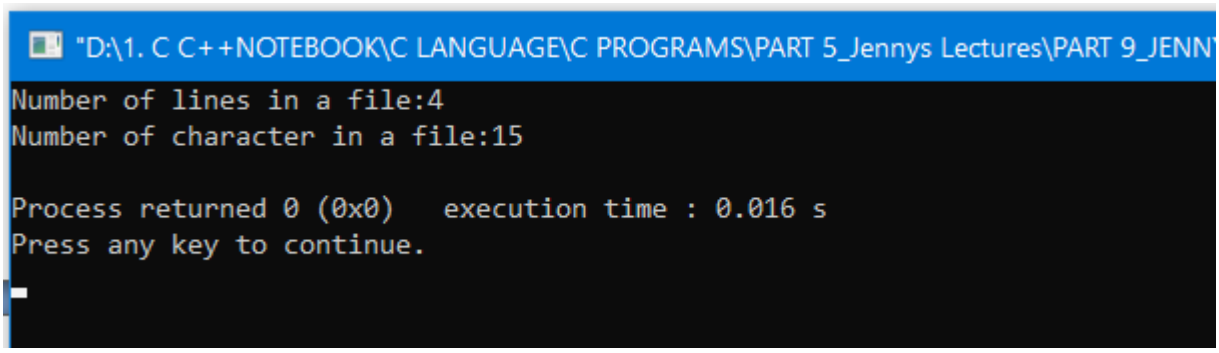


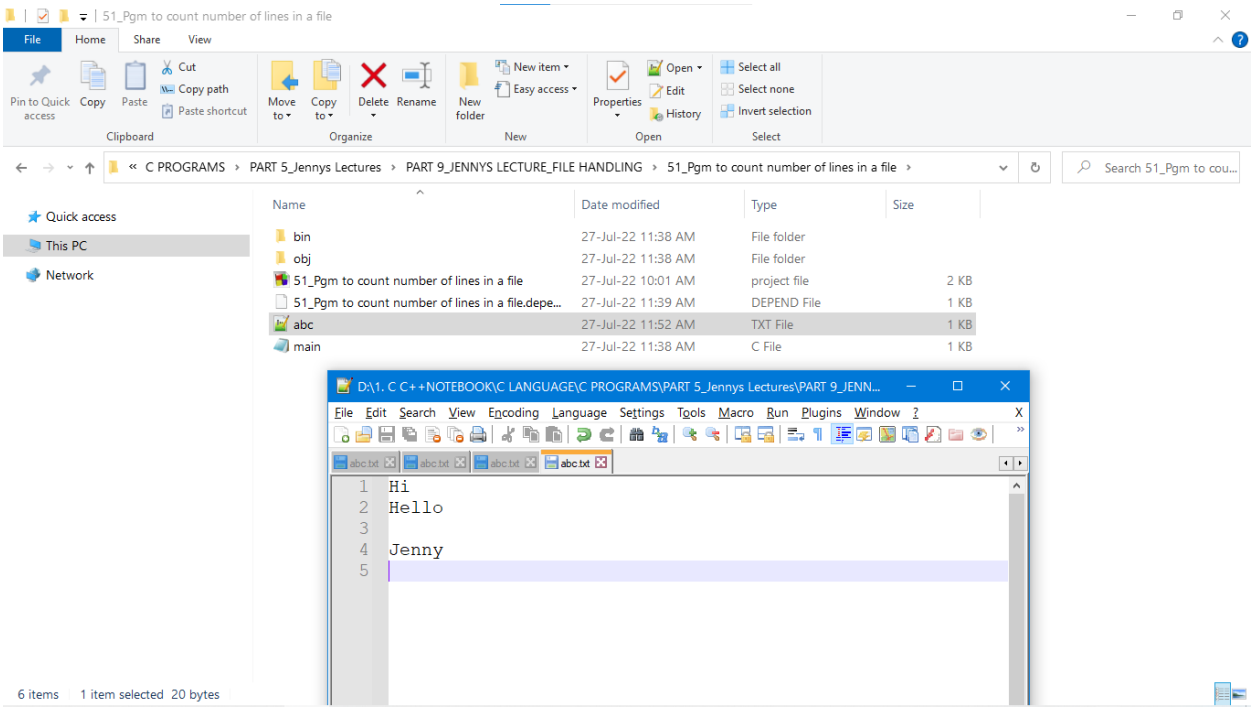
In this we have 9 characters, in first line we have 3 characters including \n for ENTER



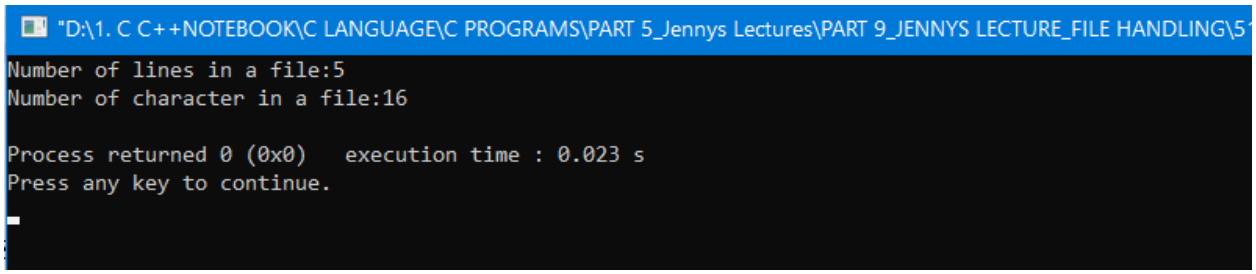


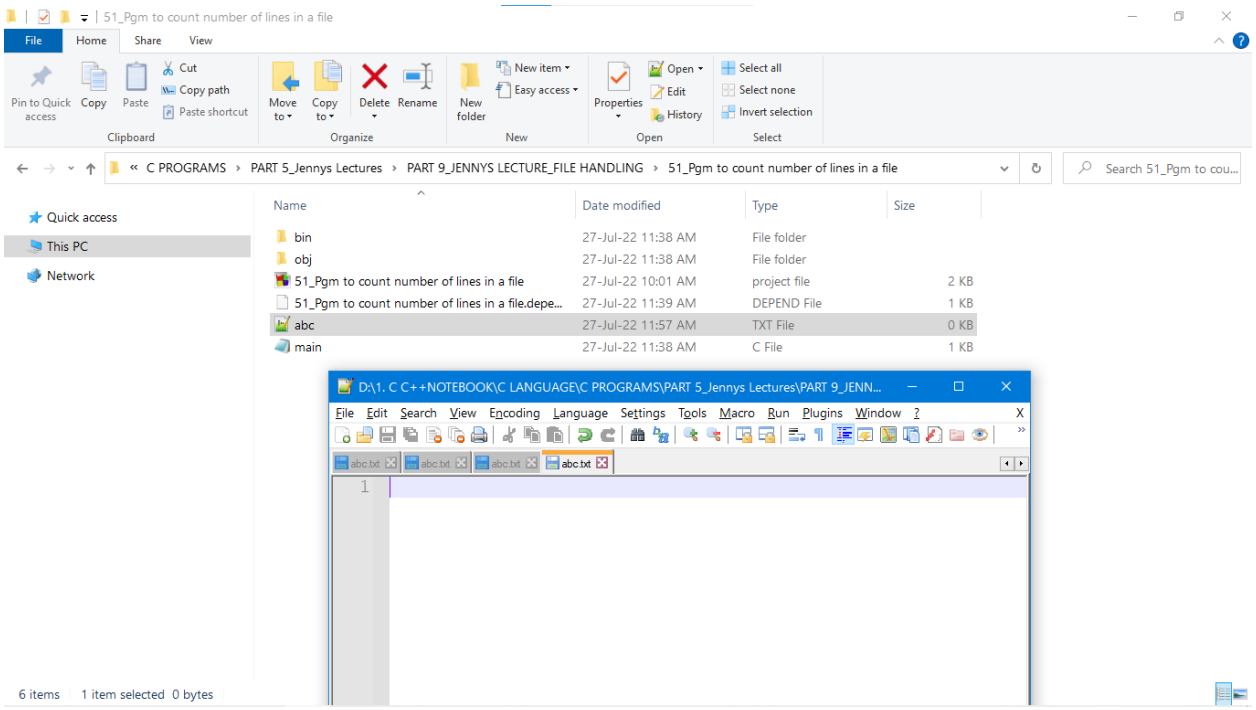
In this we have 15 characters, in first line we have 3 characters including \n for ENTER and in second line 6 characters and in third line only one character i.e. \n for ENTER and in fourth line we have 5 characters, so total=3+6+1+5=15 characters and 4 lines





In this we have 16 characters, in first line we have 3 characters including \n for ENTER and in second line 6 characters and in third line one character i.e. \n for ENTER and in fourth line we have 6 characters and in fifth line we have no character, So total=3+6+1+6+0= 16 characters and 5 lines





Now nothing is there in the file and we have only one line and no character