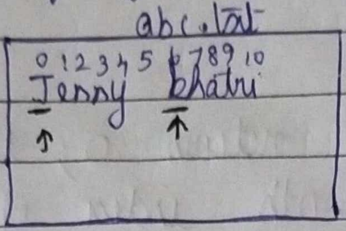
C_128 → ftell() function in File Handling.

* As a name suggest, ftell() will tell the position of file pointer in the file.



* When we open a file, the file pointer will be at the starting point of file and when we use ftell() function, it will return position of file pointer is in 0th index.

* Now using fseek() when we moved the file pointer and now using ftell() we can get the current position of the pointer. Eg: 6th index.

* Application of ftell() will tell out also the length of the file.

```
FILE *fp = NULL;
    char ch;   int Pos;
    char str[50];
  fp = fopen("abc.txt", "r");

  if( fp == NULL)
    {
        printf(" Error in opening file");
           exit(1);
    }
```

returns type
of file pointer
↑

SYNTAX :- long int ftell (FILE * pointer);

Eg ①
```
Pos = ftell ( fp);
    printf ("%d", pos);   ⇒ ⓪
        fclose(fp);
}
```

* Now pos will return 0; tells that pointer is in 0th index of the file.

Eg ②

abc.txt

0 1 2 3 4 5 6 7 8 9 10
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↑

```
pos = ftell (fp);
printf ("%d", pos);

fseek( fp, 5, SEEK_SET);
    printf("%d", ftell(fp));  ⇒ ⑤
```

Eg ③

abc.txt

0 1 2 3 4 5 6 7 8 9 10.
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↑ ↑

```
pos = ftell (fp);
printf ("%d", pos);  ⇒ ⓪

fseek (fp, 5, SEEK SET);
printf ("%d", ftell (fp));   ⇒ ⑤

Ch = fgetc (fp);
printf ("%c", Ch);  ⇒ print space
                      becoz at 5th
                      position space.

printf("%d", ftell (fp));
        ⇓
        ⑥
```

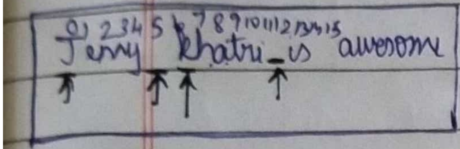
NOTE ⊗

After printing space i.e. we read & after reading pointer is moved to next position

```
Eg. ④      pos = ftell(fp);
             printf("%d", pos);  ⇒ ⑥

          fseek(fp, 5, SEEK_SET);
            printf("%d", ftell(fp)); ⇒ ⑤
```

abc.txt


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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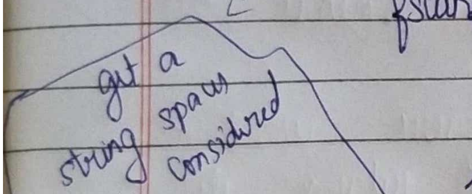
~~characters~~;

```
Ch = fgetc(ch);
printf("%c", ch); ⇒ (space)

printf("%d", ftell(fp)); ⇒ ⑥

fscanf(fp, "%s", str);
  printf("%s", str); ⇒ (Khatri)

printf("%d", ftell(fp)); ⑫
```

get a string spaces are not considered in %S ; You can also try with fgets() function and see what output you get when printing str

```
Eg. ⑤ FILE *fp;
      Char ch; int pos;
        Char str[50];
      fp= fopen("abc.txt", "r");
      if(fp==NULL)
      {
        printf("Cant open file");
          exit(1);
      }
```

abc.txt


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
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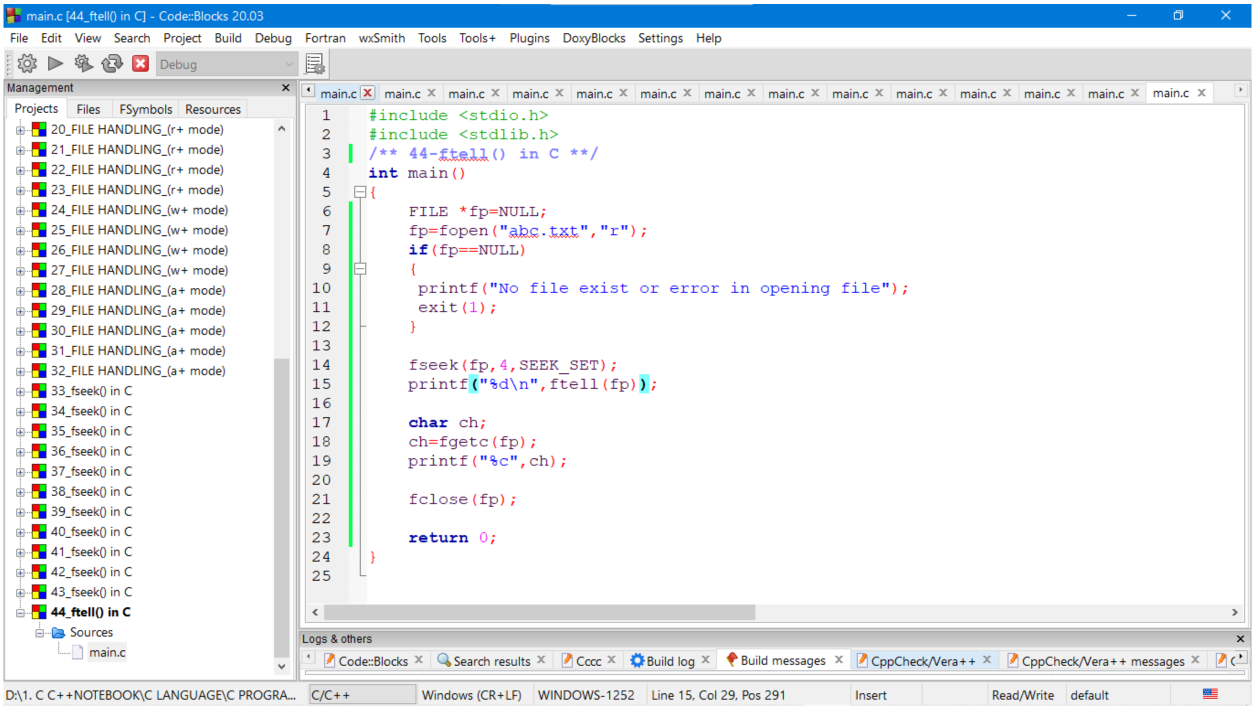
→offset 0 so pointer will remain at end.

```
fseek(fp, 0, SEEK_END);
```

To print position of file pointer

```
printf("%d", ftell(fp)); ⇒ (23)
```

which tells the length of file


main.c [44_ftell() in C] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols Resources
20_FILE HANDLING_(r+ mode)
21_FILE HANDLING_(r+ mode)
22_FILE HANDLING_(r+ mode)
23_FILE HANDLING_(r+ mode)
24_FILE HANDLING_(w+ mode)
25_FILE HANDLING_(w+ mode)
26_FILE HANDLING_(w+ mode)
27_FILE HANDLING_(w+ mode)
28_FILE HANDLING_(a+ mode)
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
Sources
main.c
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Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRA... C/C++ Windows (CR+LF) WINDOWS-1252 Line 15, Col 29, Pos 291 Insert Read/Write default

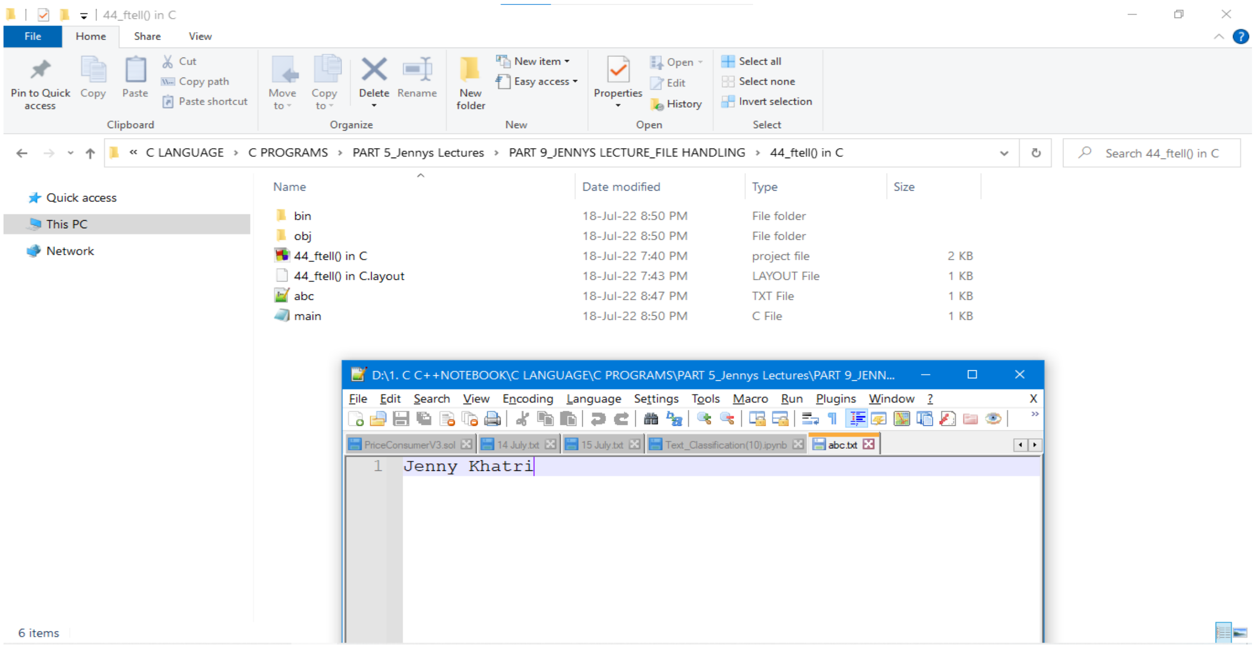
```c
#include <stdio.h>
#include <stdlib.h>
/** 44-ftell() in C **/
int main()
{
    FILE *fp=NULL;
    fp=fopen("abc.txt","r");
    if(fp==NULL)
    {
     printf("No file exist or error in opening file");
     exit(1);
    }

    fseek(fp,4,SEEK_SET);
    printf("%d\n",ftell(fp));

    char ch;
    ch=fgetc(fp);
    printf("%c",ch);

    fclose(fp);

    return 0;
}
```


44_ftell() in C
File Home Share View
Pin to Quick access Copy Paste Cut Copy path Paste shortcut Move to Copy to Delete Rename New folder New item Easy access Properties Open Edit History Select all Select none Invert selection
Clipboard Organize New Open Select
C LANGUAGE › C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 44_ftell() in C
Search 44_ftell() in C
Quick access
This PC
Network
6 items
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 ?
PriceConsumerV3.sol 14 July.txt 15 July.txt Text_Classification(10).ipynb abc.txt

Name	Date modified	Type	Size
bin	18-Jul-22 8:50 PM	File folder	
obj	18-Jul-22 8:50 PM	File folder	
44_ftell() in C	18-Jul-22 7:40 PM	project file	2 KB
44_ftell() in C.layout	18-Jul-22 7:43 PM	LAYOUT File	1 KB
abc	18-Jul-22 8:47 PM	TXT File	1 KB
main	18-Jul-22 8:50 PM	C File	1 KB

```
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```
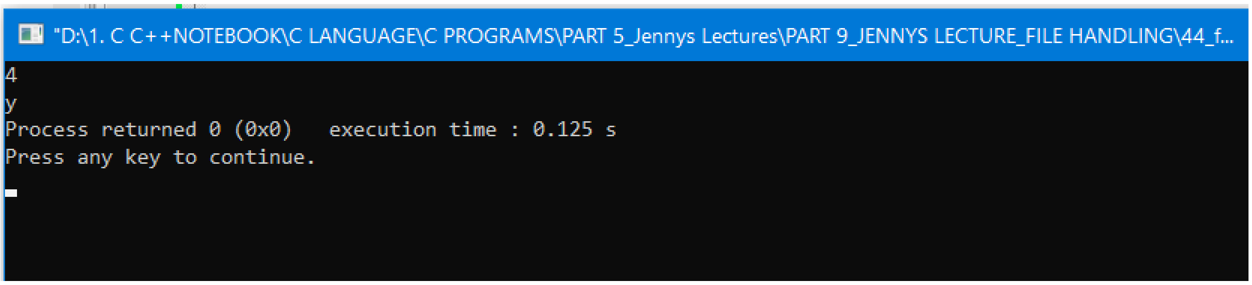
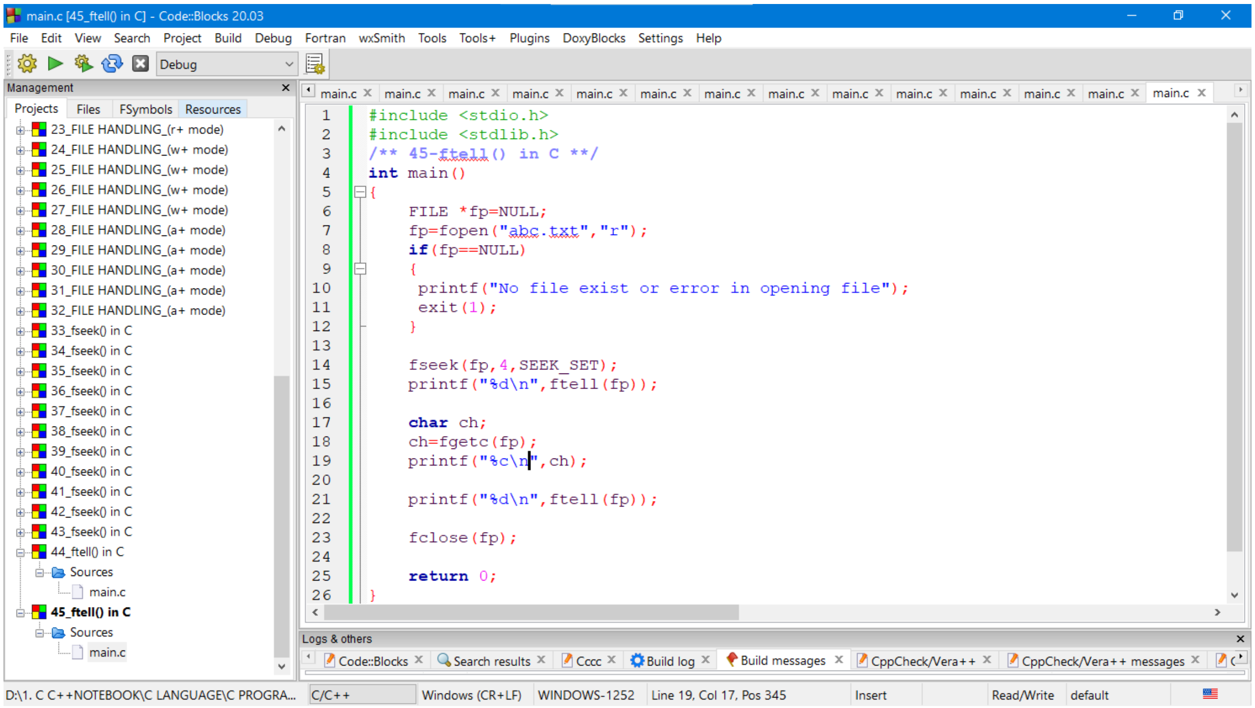


"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\44_f...

```
4
y
Process returned 0 (0x0)   execution time : 0.125 s
Press any key to continue.
```


main.c [45_ftell() in C] - 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
23_FILE HANDLING_(r+ mode)
24_FILE HANDLING_(w+ mode)
25_FILE HANDLING_(w+ mode)
26_FILE HANDLING_(w+ mode)
27_FILE HANDLING_(w+ mode)
28_FILE HANDLING_(a+ mode)
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
Sources
main.c
45_ftell() in C
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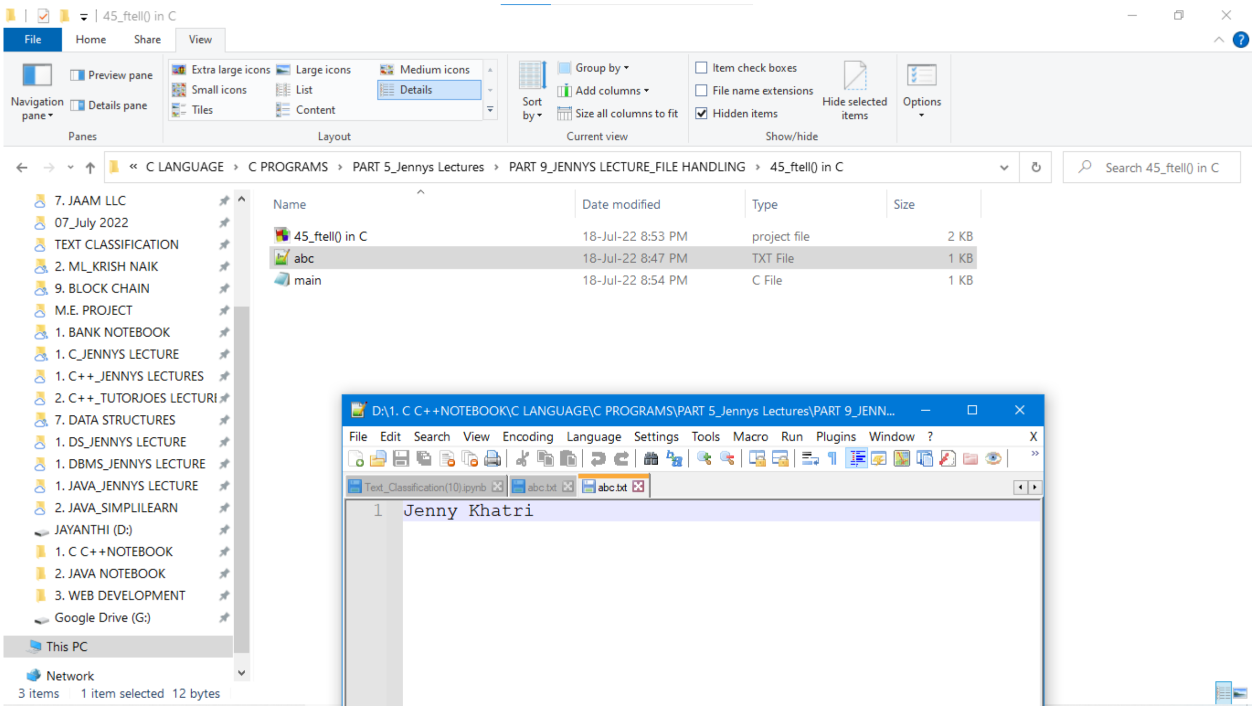
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRA... C/C++ Windows (CR+LF) WINDOWS-1252 Line 19, Col 17, Pos 345 Insert Read/Write default

```c
#include <stdio.h>
#include <stdlib.h>
/** 45-ftell() in C **/
int main()
{
    FILE *fp=NULL;
    fp=fopen("abc.txt","r");
    if(fp==NULL)
    {
     printf("No file exist or error in opening file");
     exit(1);
    }

    fseek(fp,4,SEEK_SET);
    printf("%d\n",ftell(fp));

    char ch;
    ch=fgetc(fp);
    printf("%c\n",ch);

    printf("%d\n",ftell(fp));

    fclose(fp);

    return 0;
}
```


45_ftell() in C
File Home Share View
Preview pane Details pane Navigation pane Panes
Extra large icons Large icons Medium icons Small icons List Details Tiles Content Layout
Sort by Group by Add columns Size all columns to fit Current view
Item check boxes File name extensions Hidden items Hide selected items Show/hide Options
« C LANGUAGE › C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 45_ftell() in C
Search 45_ftell() in C
7. JAAM LLC
07_July 2022
TEXT CLASSIFICATION
2. ML_KRISH NAIK
9. BLOCK CHAIN
M.E. PROJECT
1. BANK NOTEBOOK
1. C_JENNYS LECTURE
1. C++_JENNYS LECTURES
2. C++_TUTORJOES LECTURI
7. DATA STRUCTURES
1. DS_JENNYS LECTURE
1. DBMS_JENNYS LECTURE
1. JAVA_JENNYS LECTURE
2. JAVA_SIMPLILEARN
JAYANTHI (D:)
1. C C++NOTEBOOK
2. JAVA NOTEBOOK
3. WEB DEVELOPMENT
Google Drive (G:)
This PC
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3 items 1 item selected 12 bytes
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 ?
Text_Classification(10).ipynb abc.txt abc.txt

Name	Date modified	Type	Size
45_ftell() in C	18-Jul-22 8:53 PM	project file	2 KB
abc	18-Jul-22 8:47 PM	TXT File	1 KB
main	18-Jul-22 8:54 PM	C File	1 KB

```
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```
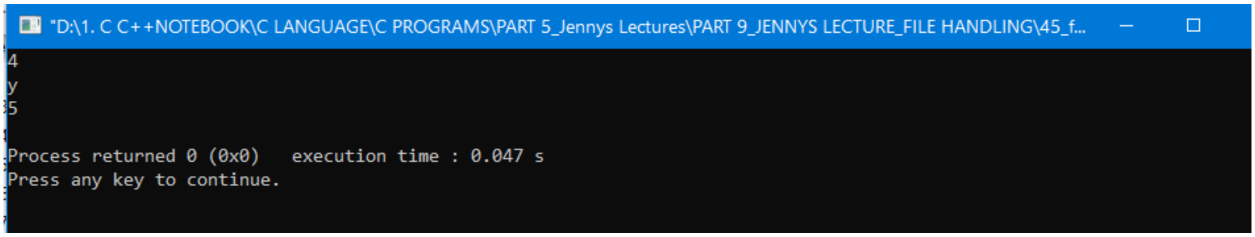
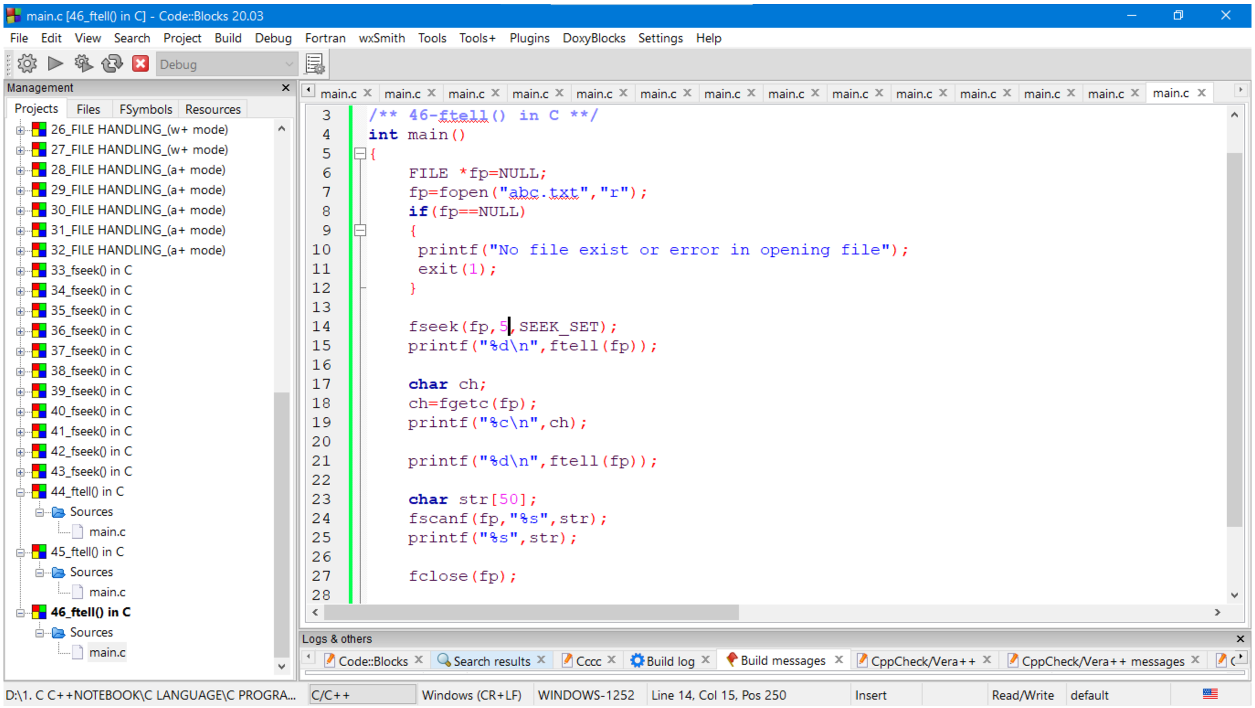


"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\45_f...

```
4
y
5

Process returned 0 (0x0)   execution time : 0.047 s
Press any key to continue.
```


main.c [46_ftell() in C] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
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26_FILE HANDLING_(w+ mode)
27_FILE HANDLING_(w+ mode)
28_FILE HANDLING_(a+ mode)
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
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45_ftell() in C
Sources
main.c
46_ftell() in C
Sources
main.c
Logs & others
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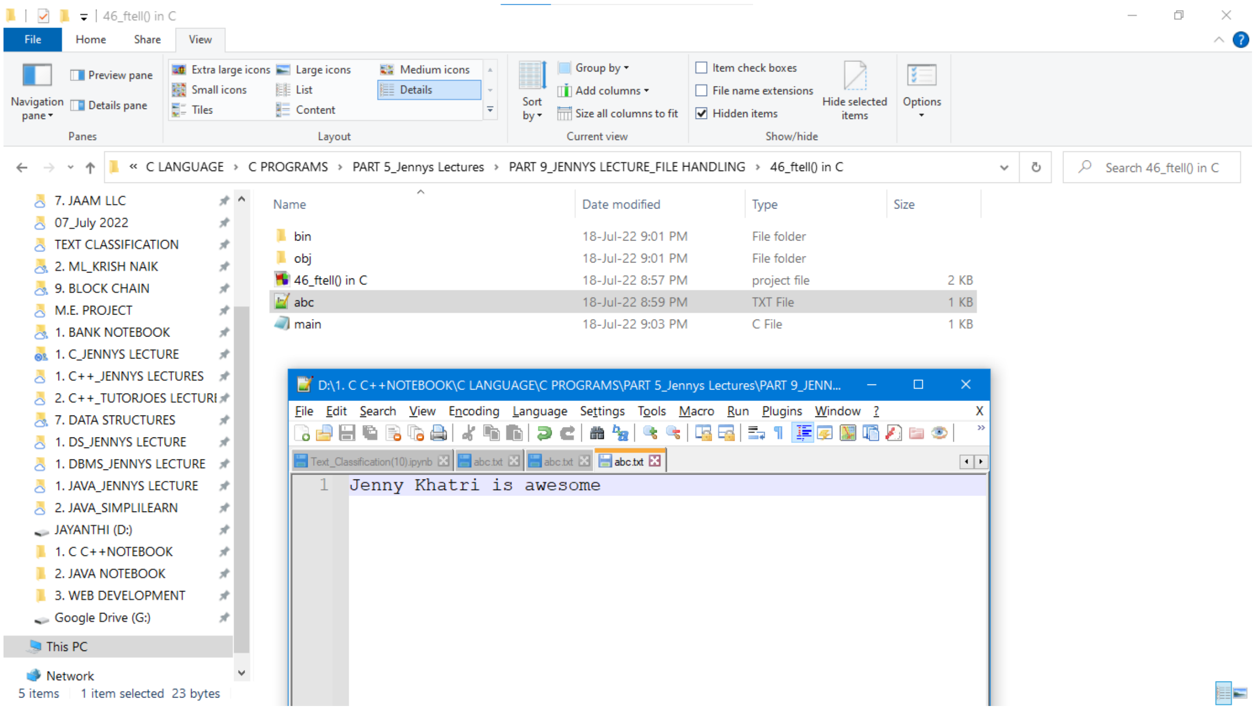
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRA... C/C++ Windows (CR+LF) WINDOWS-1252 Line 14, Col 15, Pos 250 Insert Read/Write default

```c
/** 46-ftell() in C **/
int main()
{
    FILE *fp=NULL;
    fp=fopen("abc.txt","r");
    if(fp==NULL)
    {
     printf("No file exist or error in opening file");
     exit(1);
    }

    fseek(fp,5,SEEK_SET);
    printf("%d\n",ftell(fp));

    char ch;
    ch=fgetc(fp);
    printf("%c\n",ch);

    printf("%d\n",ftell(fp));

    char str[50];
    fscanf(fp,"%s",str);
    printf("%s",str);

    fclose(fp);

```


46_ftell() in C
File Home Share View
C LANGUAGE > C PROGRAMS > PART 5_Jennys Lectures > PART 9_JENNYS LECTURE_FILE HANDLING > 46_ftell() in C
5 items 1 item selected 23 bytes
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENN...
abc.txt

Name	Date modified	Type	Size
bin	18-Jul-22 9:01 PM	File folder	
obj	18-Jul-22 9:01 PM	File folder	
46_ftell() in C	18-Jul-22 8:57 PM	project file	2 KB
abc	18-Jul-22 8:59 PM	TXT File	1 KB
main	18-Jul-22 9:03 PM	C File	1 KB

```
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```
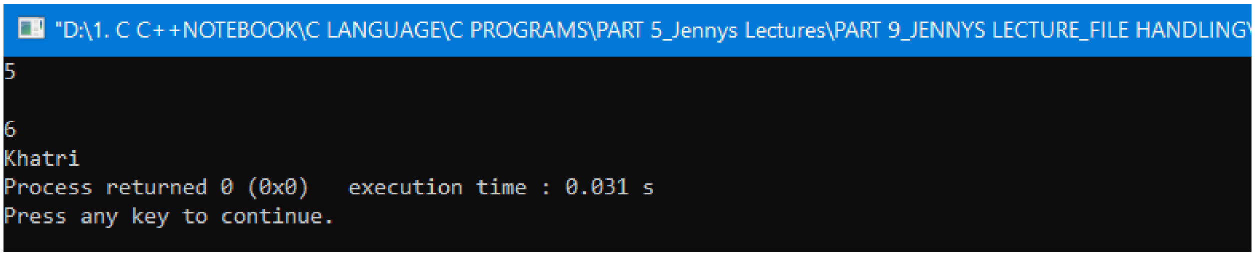
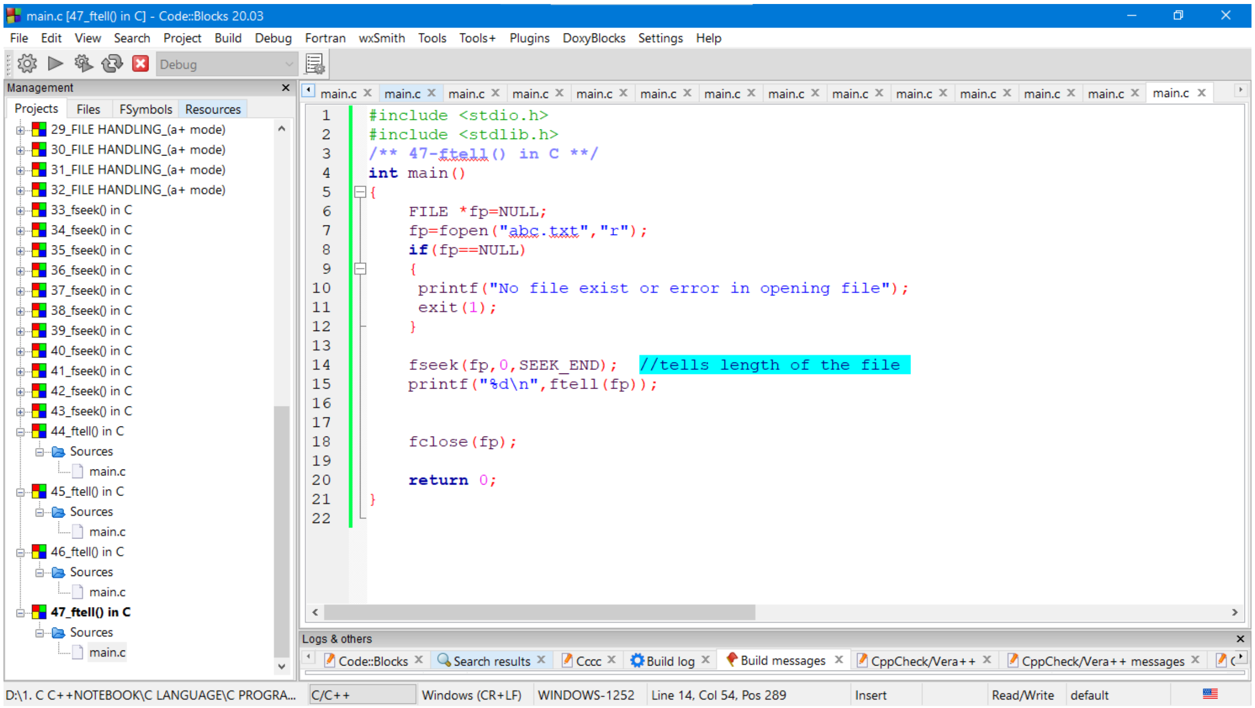


"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING

```
5

6
Khatri
Process returned 0 (0x0)   execution time : 0.031 s
Press any key to continue.
```


main.c [47_ftell() in C] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
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
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46_ftell() in C
Sources
main.c
47_ftell() in C
Sources
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Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRA... C/C++ Windows (CR+LF) WINDOWS-1252 Line 14, Col 54, Pos 289 Insert Read/Write default

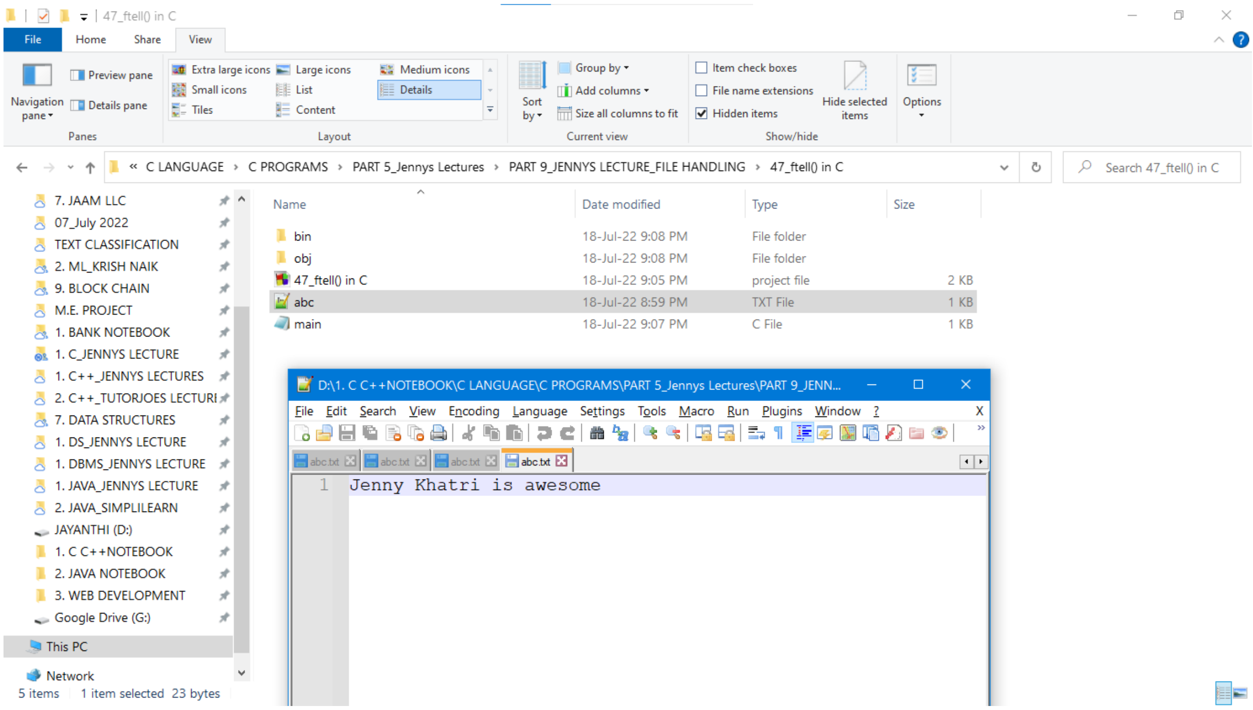
```
#include <stdio.h>
#include <stdlib.h>
/** 47-ftell() in C **/
int main()
{
    FILE *fp=NULL;
    fp=fopen("abc.txt","r");
    if(fp==NULL)
    {
     printf("No file exist or error in opening file");
     exit(1);
    }

    fseek(fp,0,SEEK_END);  //tells length of the file
    printf("%d\n",ftell(fp));


    fclose(fp);

    return 0;
}

```


47_ftell() in C
File Home Share View
C LANGUAGE › C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 47_ftell() in C
Search 47_ftell() in C
5 items 1 item selected 23 bytes
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 abc.txt abc.txt abc.txt

Name	Date modified	Type	Size
bin	18-Jul-22 9:08 PM	File folder	
obj	18-Jul-22 9:08 PM	File folder	
47_ftell() in C	18-Jul-22 9:05 PM	project file	2 KB
abc	18-Jul-22 8:59 PM	TXT File	1 KB
main	18-Jul-22 9:07 PM	C File	1 KB

```
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```

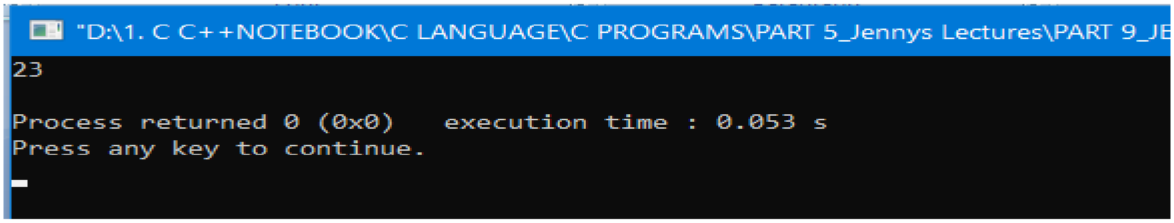
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JE

```
23

Process returned 0 (0x0)   execution time : 0.053 s
Press any key to continue.
```