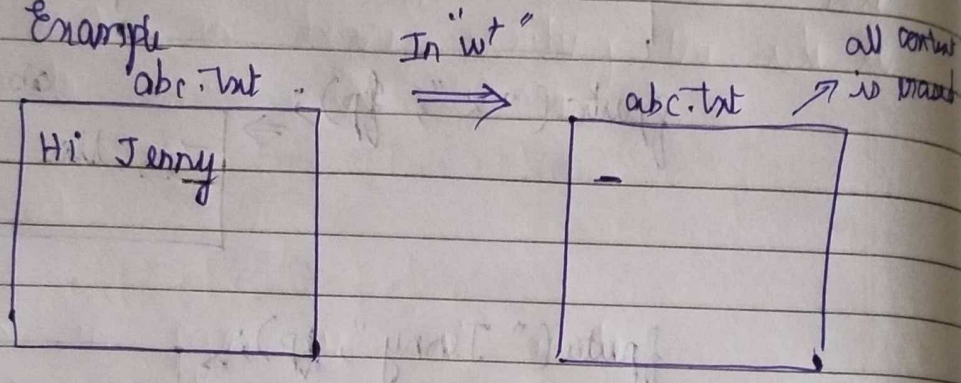
C_125 ⇒ w+ mode in File Handling

* w+ mode is also for both reading and writing; and if file doesn't exist it will create a file and do read/write.

* But there is huge difference between r+ and w+ mode.

* If file exist in w+ mode; then the whole content in the file is erased



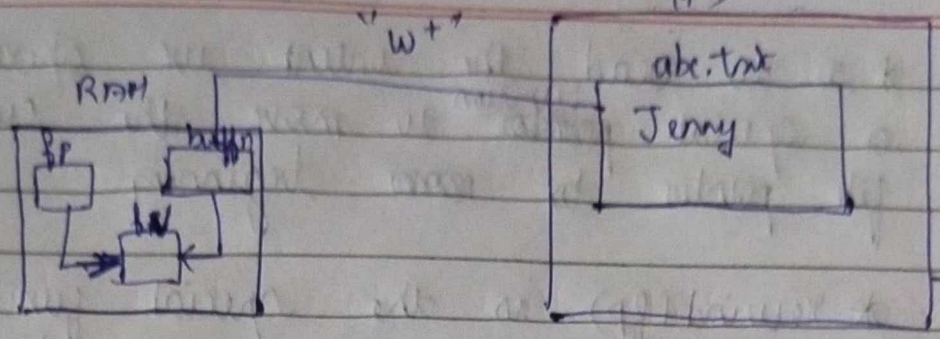
* "w+" mode is specially for writing purpose but it can read also.

Program:

```
FILE *fp = NULL;
char str[20];
fp = fopen("abc.txt", "w+");
if(fp == NULL)
{
printf("Can't open file");
exit(1);
}
```

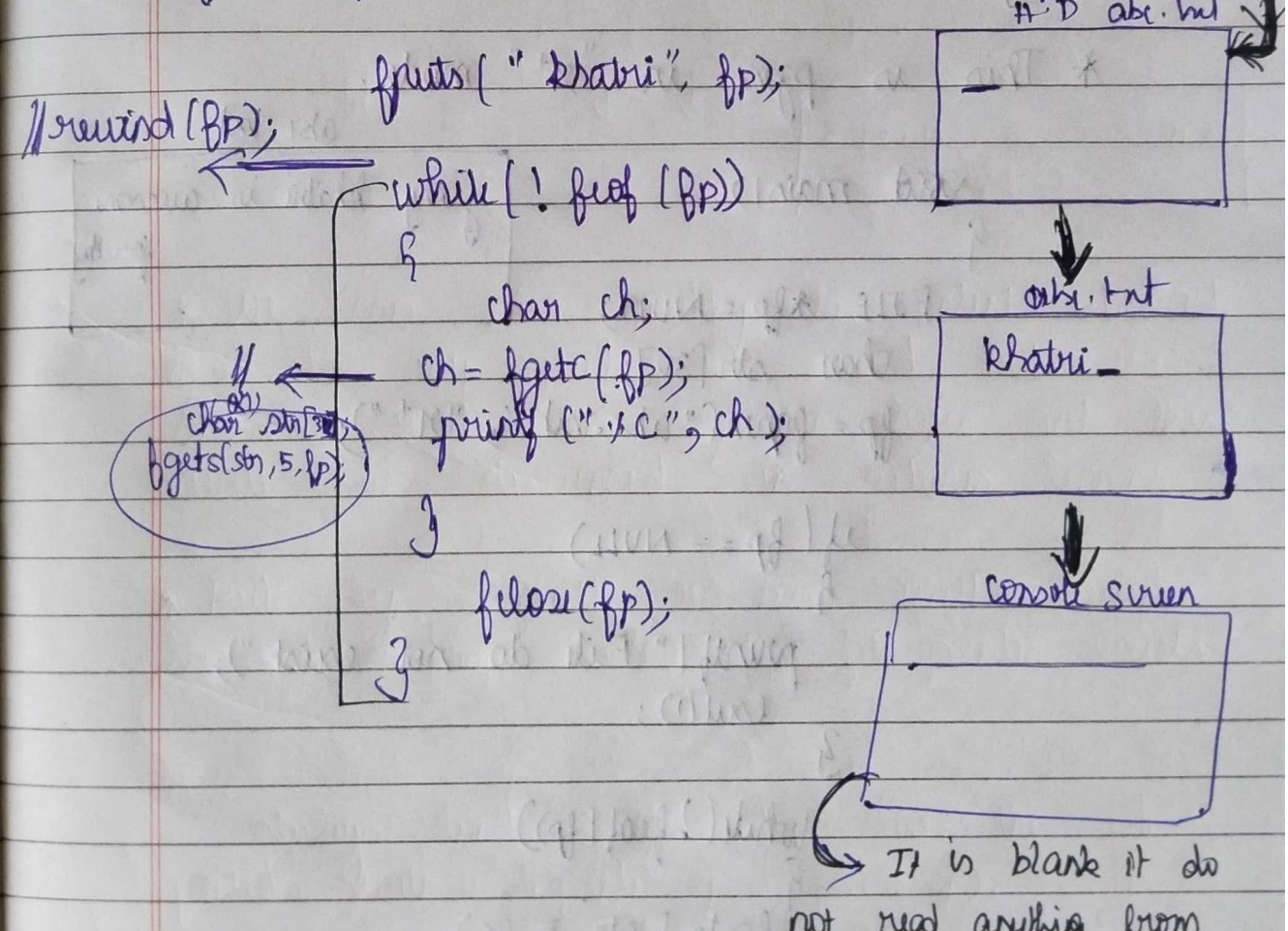
↳ If file don't exist it will create a file.

↳ If file is opened by some other pointer that is not closed then we print this



* In "w+" mode the whole content of the file when loaded into the buffer will get erased and how we can read the file.

* So we cannot read the previous content of the file but we can read the content whatever we put/write into a file after it is loaded into buffer.



* so to read the content we should use a special function to move the cursor or file pointer to beginning

* rewind(fp). is the special function used to move the file pointer to the beginning of the file.

```
rewind(fp);
```

* Put this rewind(fp) before the while loop that is before writing the code to read to move the cursor.

Assignment:

* This is pgm in "r+" mode.

abc.txt

```
jinny bhatia is awesome
faculty
```

```
void main()
{
FILE *fp = NULL;
char str[30];
fp = fopen("abc.txt", "r+");

if(fp == NULL)
{
printf("File do not exist");
exit();
}
while(!feof(fp))
{
fgets(str, 5, fp);
printf("%s", str);
```

```
fputs("Jerry", fp);
fclose(fp);
}
```

* Now before coding and compiling directly in laptop find out where would be "jerry" added in "abc.txt" file.

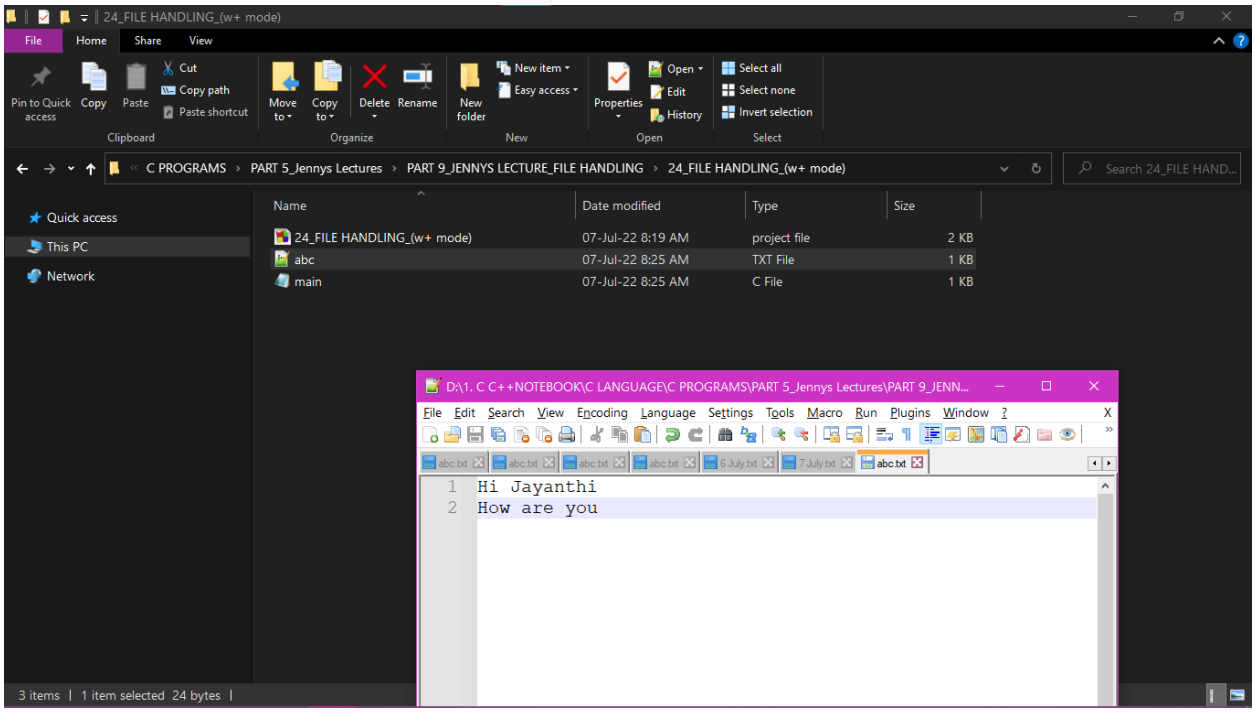
O/P →

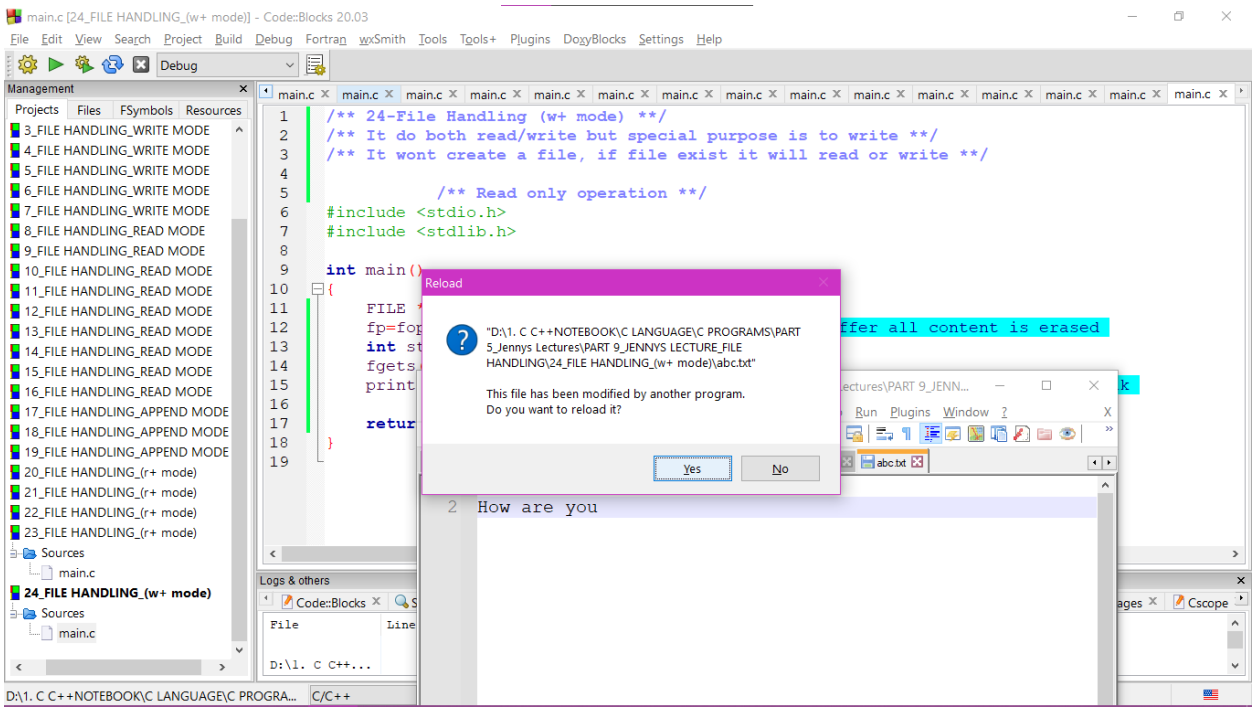
abc.txt

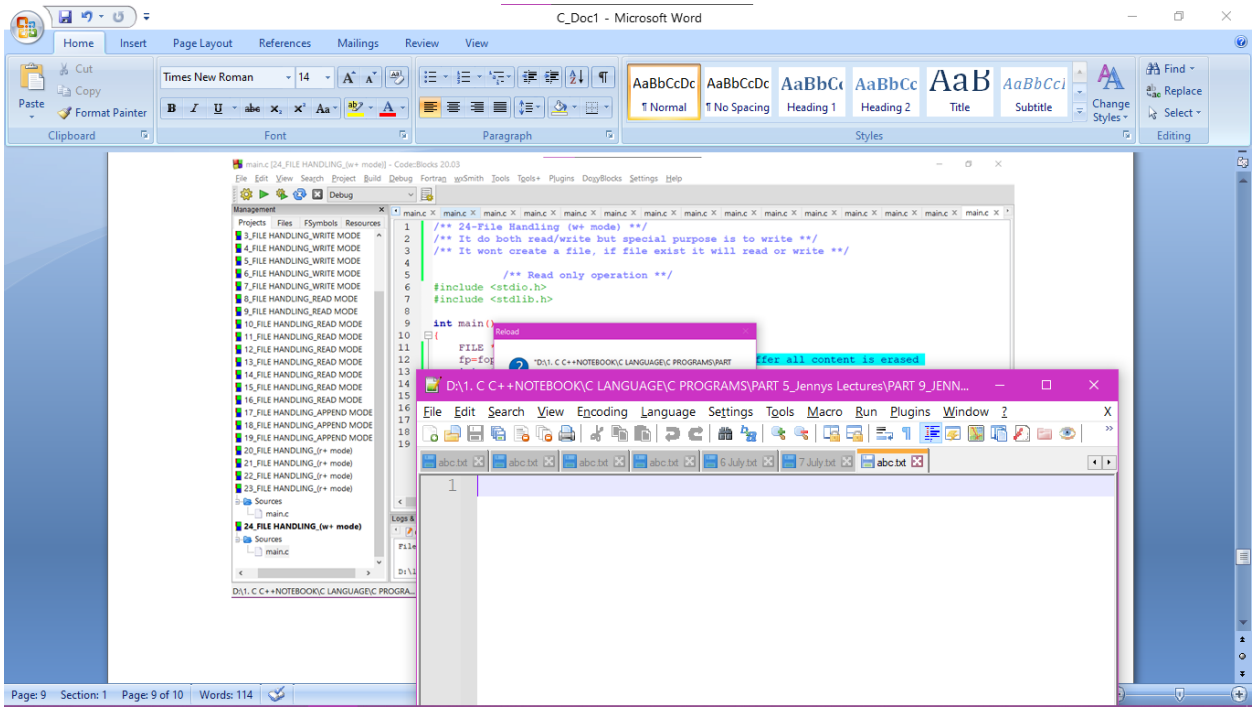
jerry bhatri is awesome
facultyjerry

Because after read the file pointer is now end of the file and from there it start to write the content.

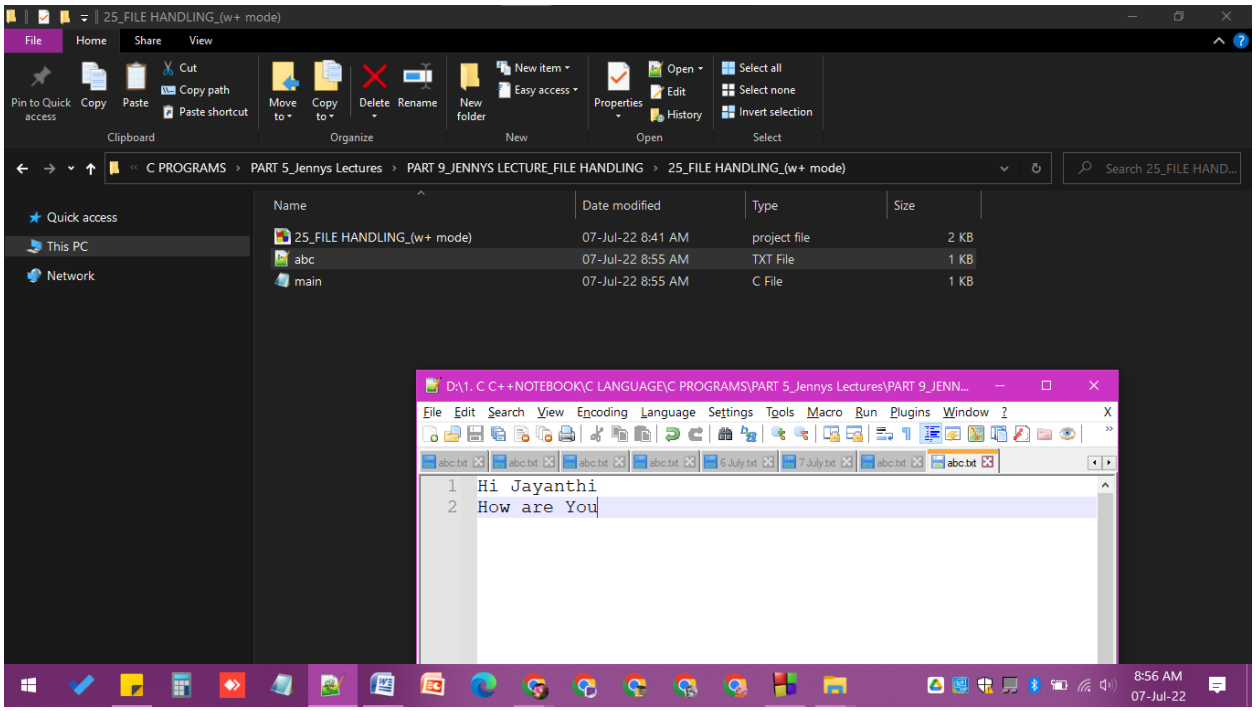
```c
/** 24-File Handling (w+ mode) **/
/** It do both read/write but special purpose is to write **/
/** It will create a file, if file exist it will read or write **/

          /** Read only operation **/
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE *fp;
    fp=fopen("abc.txt","w+"); //when loaded into buffer all content is erased
    char string[50];
    fgets(string,45,fp);
    printf("%s",string); //There is nothing in the file to read, so prints blank

    return 0;
}
```





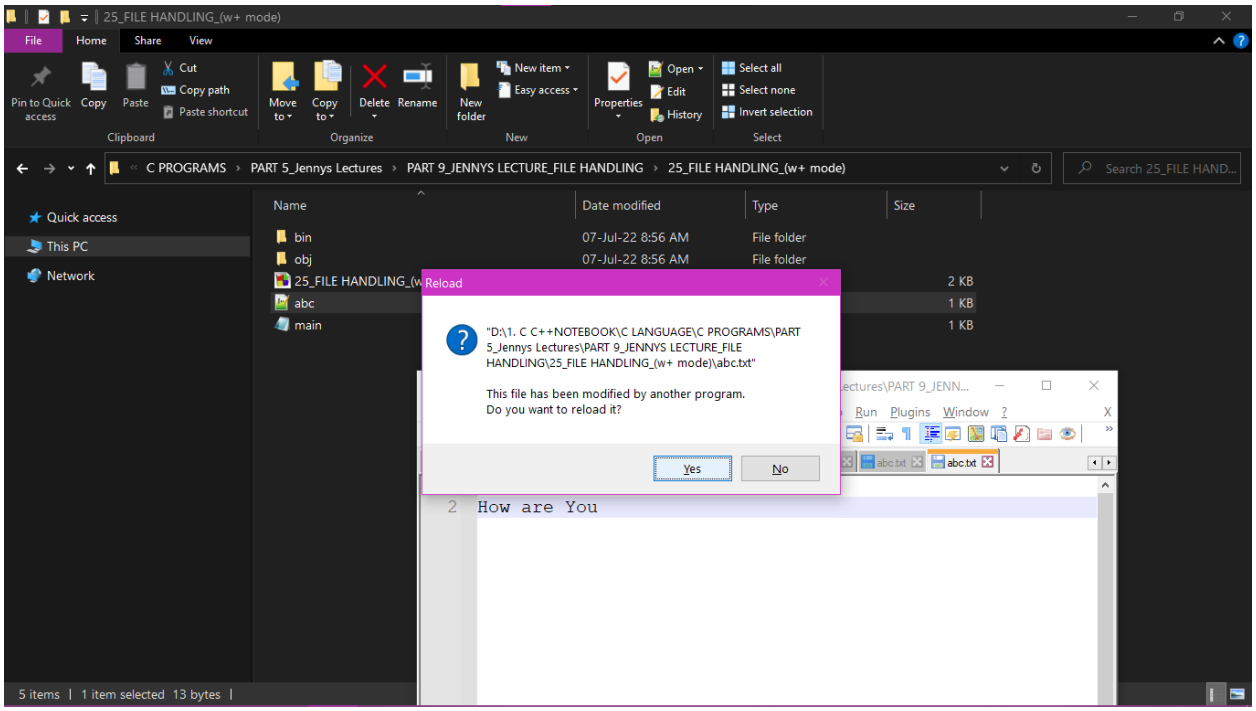


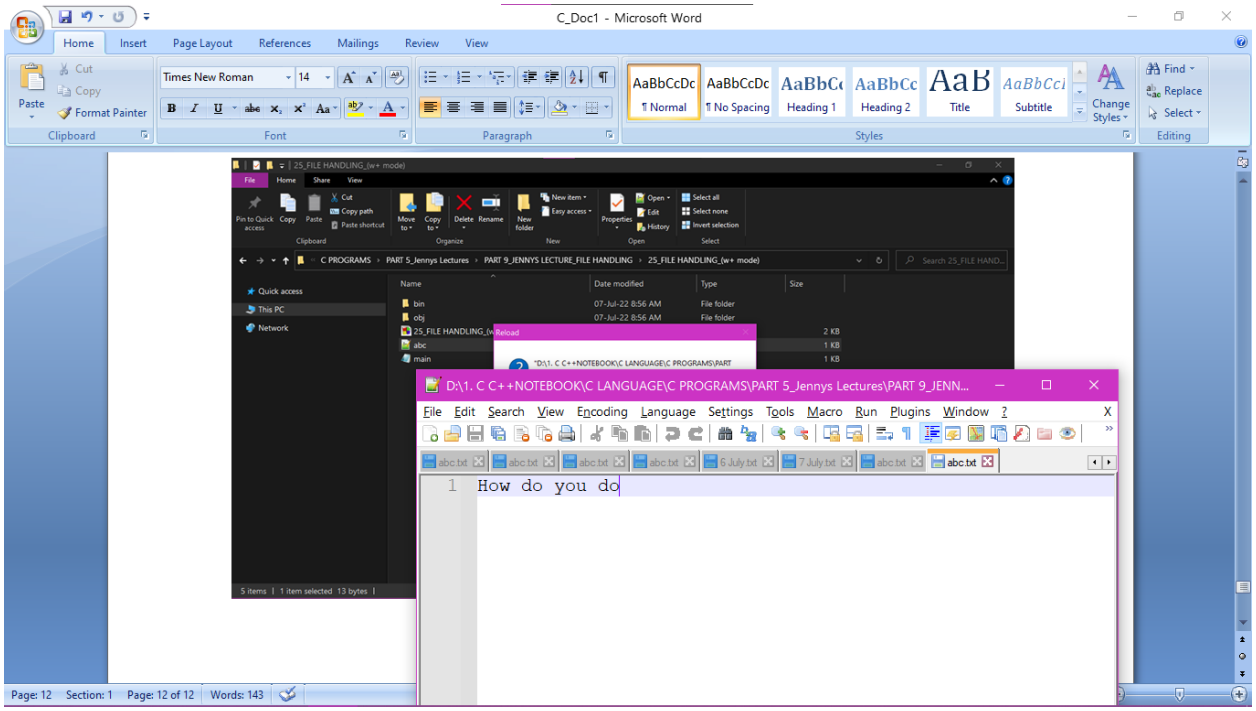
There is nothing in the file to read since we have given w+ mode, this will load the file into the buffer by erasing the content in the file.

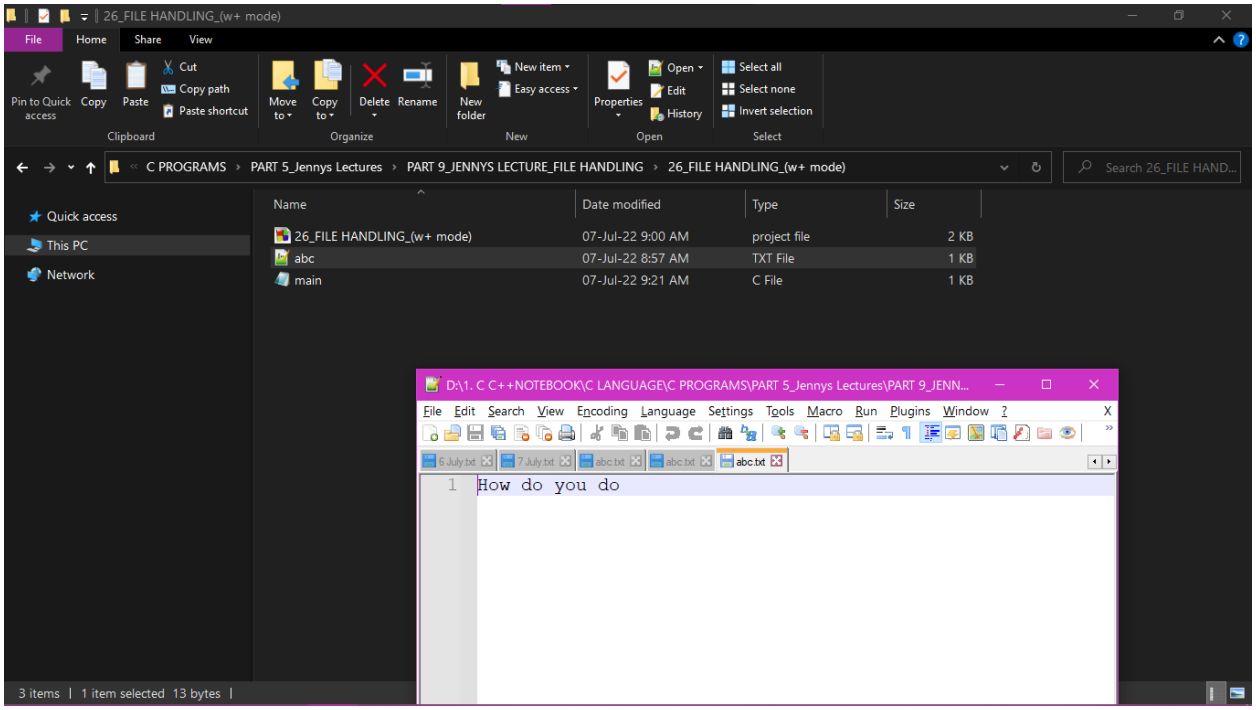



```c
/** 25-File Handling (w+ mode) **/
/** It do both read/write but special purpose is to write **/
/** It will create a file, if file exist it will read or write **/

          /** write only operation **/
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE *fp;
    fp=fopen("abc.txt","w+"); //when loaded into buffer all content is erased
    char string[50];
    printf("Enter the content to write in file\n");
    gets(string);
    fputs(string,fp);

    return 0;
}
```

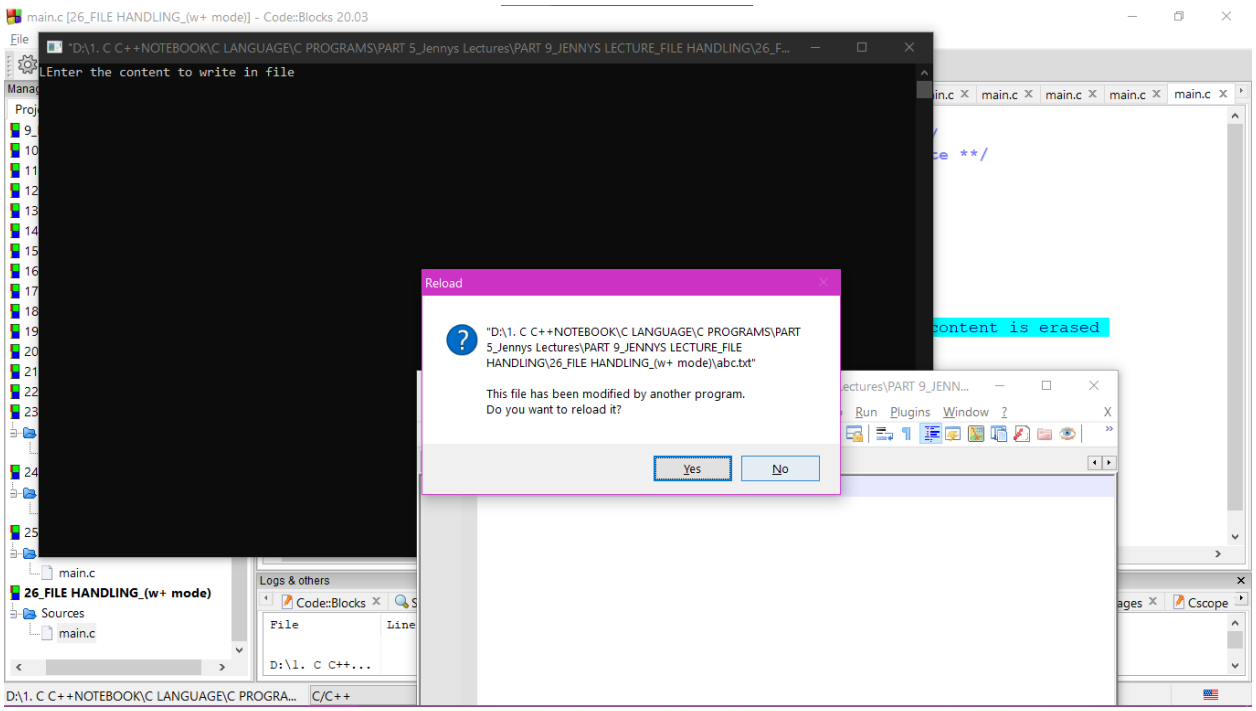
```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\25_
Enter the content to write in file
How do you do

Process returned 0 (0x0)   execution time : 11.144 s
Press any key to continue.
```

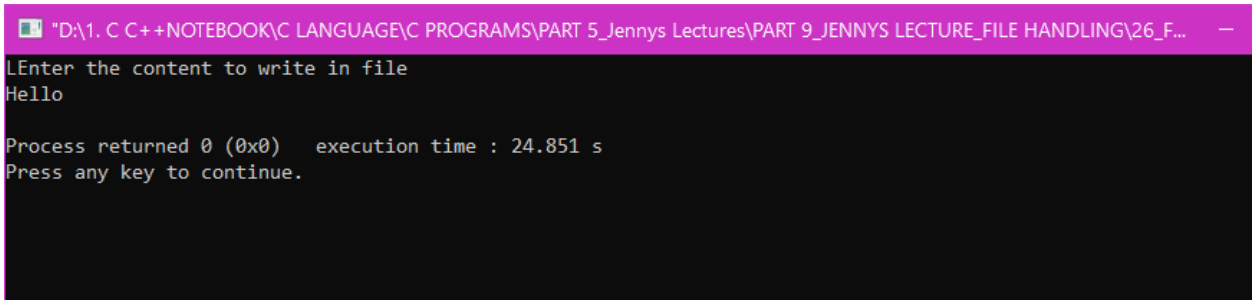

25_FILE HANDLING_(w+ mode)
File Home Share View
C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 25_FILE HANDLING_(w+ mode)
Quick access
This PC
Network
Name
Date modified
Type
Size
bin
07-Jul-22 8:56 AM
File folder
obj
07-Jul-22 8:56 AM
File folder
abc
main
2 KB
1 KB
1 KB
Reload
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\25_FILE HANDLING_(w+ mode)\abc.txt"
This file has been modified by another program.
Do you want to reload it?
Yes
No
How are You
5 items | 1 item selected 13 bytes

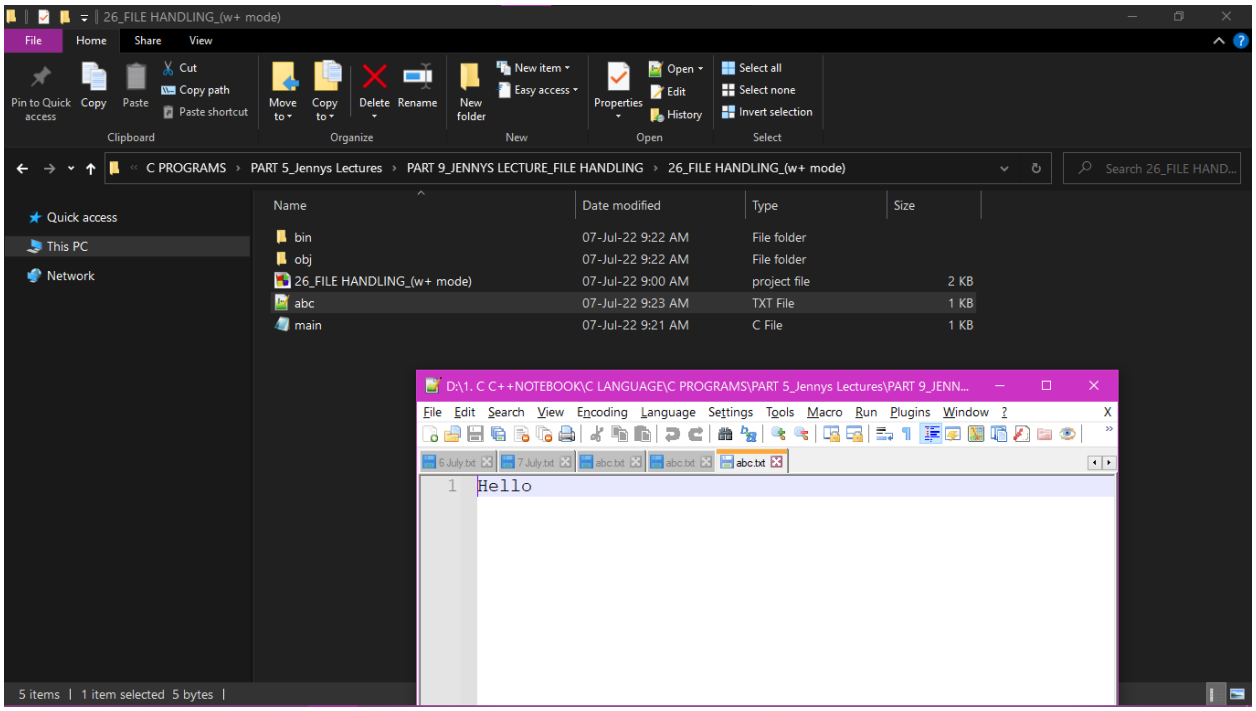

C_Doc1 - Microsoft Word
Home Insert Page Layout References Mailings Review View
Times New Roman
14
Normal
No Spacing
Heading 1
Heading 2
Title
Subtitle
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENN...
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
How do you do
Page: 12 Section: 1 Page: 12 of 12 Words: 143

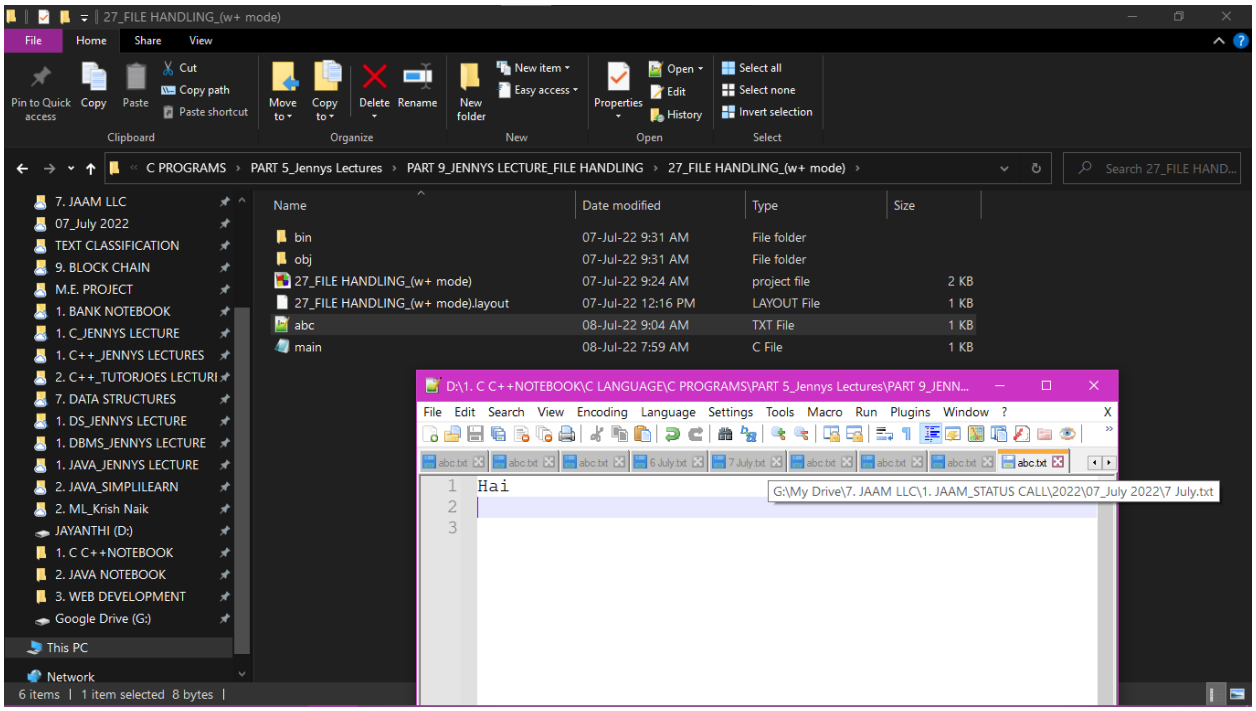



```c
/** 26-File Handling (w+ mode) **/
/** It do both read/write but special purpose is to write **/
/** It will create a file, if file exist it will read or write **/

          /** First read and do write operation **/
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE *fp;
    fp=fopen("abc.txt","w+"); //when loaded into buffer all content is erased
    char string[50];
    fgets(string,50,fp);
    printf("%s",string);

    printf("Enter the content to write in file\n");
    gets(string);
    fputs(string,fp);

    return 0;
}
```

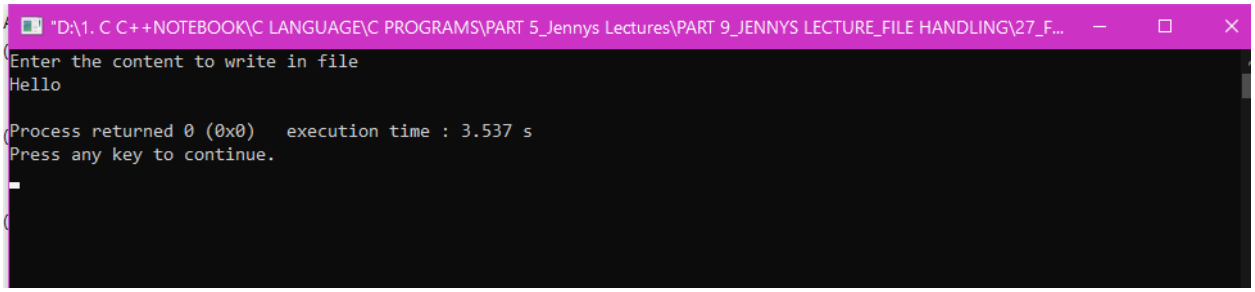

main.c [26_FILE HANDLING_(w+ mode)] - Code::Blocks 20.03
File
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\26_F...
LEnter the content to write in file
Reload
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\26_FILE HANDLING_(w+ mode)\abc.txt"
This file has been modified by another program.
Do you want to reload it?
Yes
No
content is erased
Run Plugins Window ?
main.c
26_FILE HANDLING_(w+ mode)
Sources
main.c
Logs & others
Code::Blocks
File
D:\1. C C++...
Cscope
D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRA...
C/C++

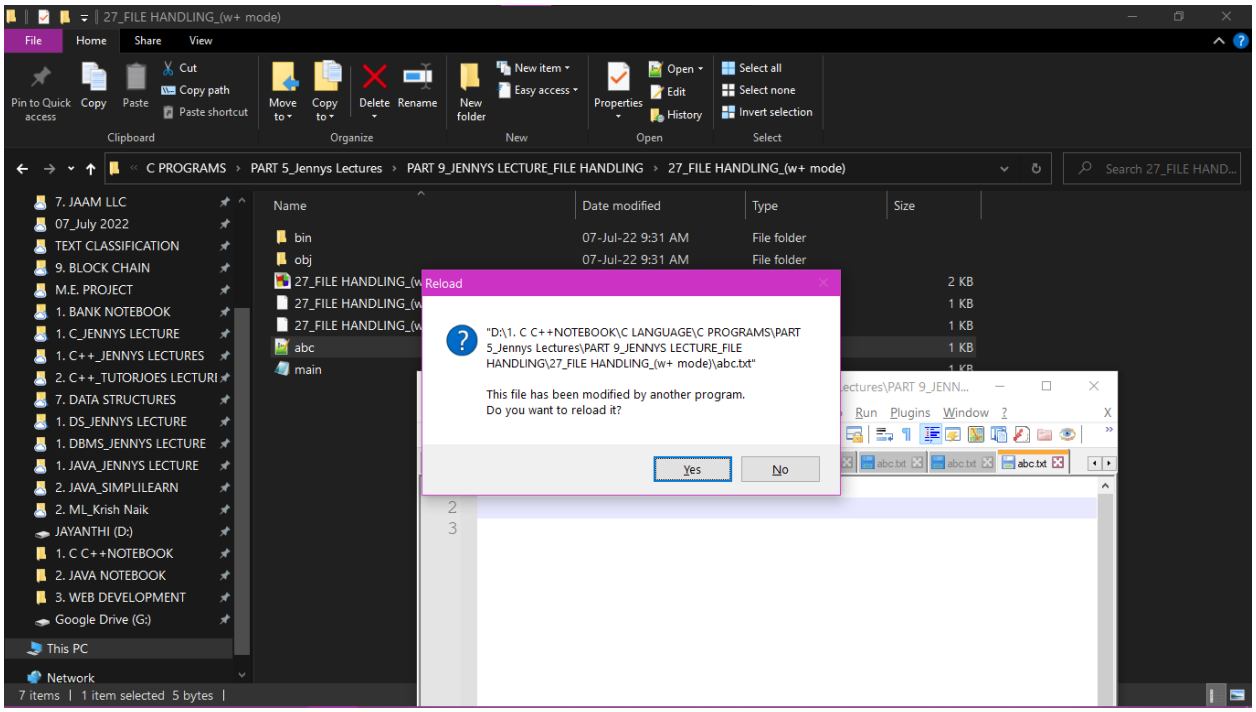

"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\26_F...
LEnter the content to write in file
Hello
Process returned 0 (0x0) execution time : 24.851 s
Press any key to continue.

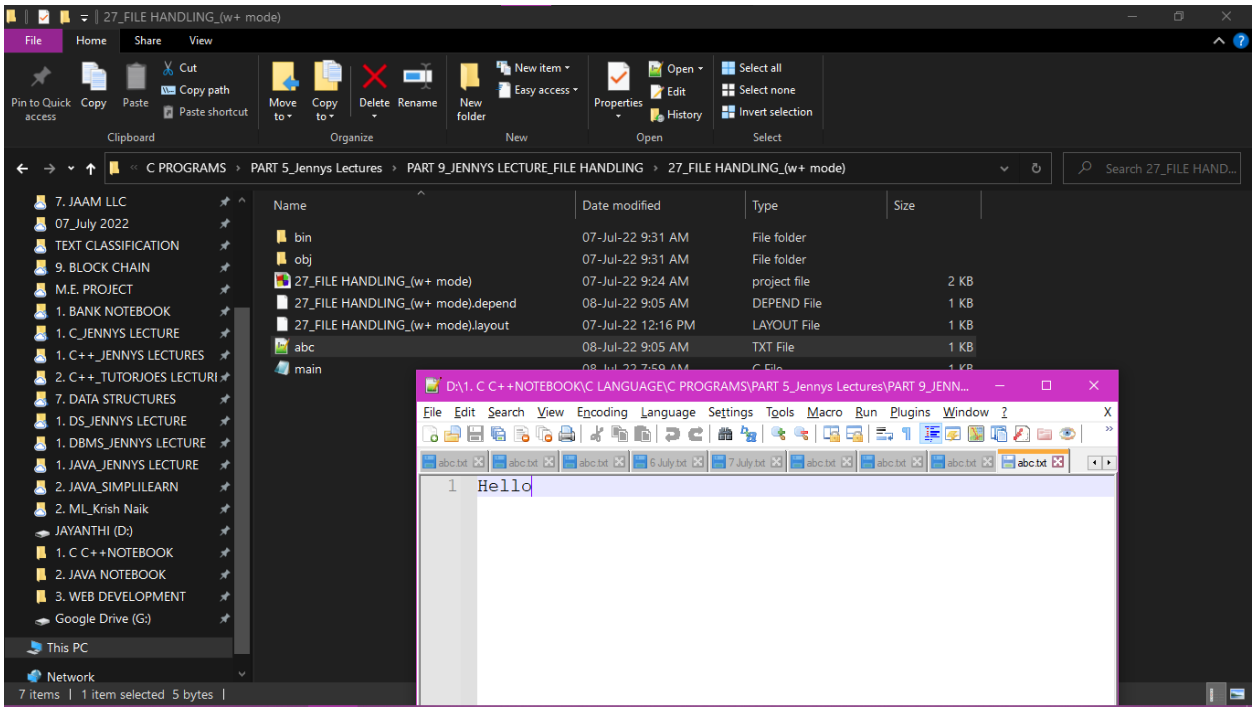

26_FILE HANDLING_(w+ mode)
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 26_FILE HANDLING_(w+ mode)
Search 26_FILE HAND...
Quick access
This PC
Network
Name
Date modified
Type
Size
bin
07-Jul-22 9:22 AM
File folder
obj
07-Jul-22 9:22 AM
File folder
26_FILE HANDLING_(w+ mode)
07-Jul-22 9:00 AM
project file
2 KB
abc
07-Jul-22 9:23 AM
TXT File
1 KB
main
07-Jul-22 9:21 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 ?
6 July.txt
7 July.txt
abc.txt
abc.txt
abc.txt
1
Hello
5 items | 1 item selected 5 bytes



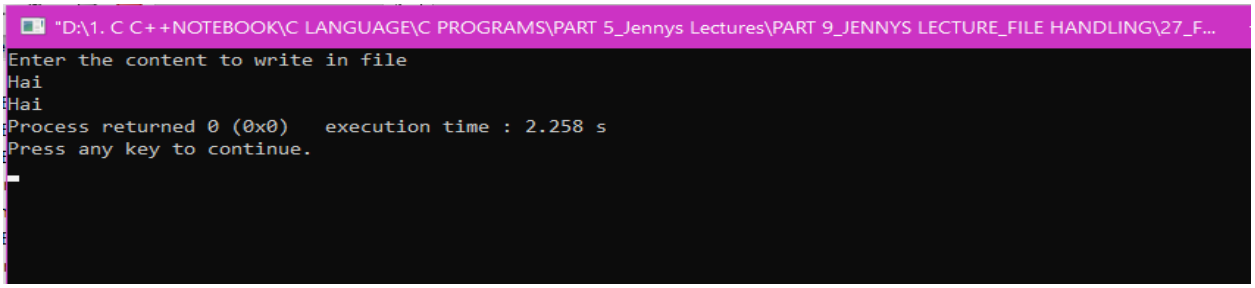

```c
/** 27-File Handling (w+ mode) **/
/** It do both read/write but special purpose is to write **/
/** It will create a file, if file exist it will read or write **/

          /** First write and do read operation **/
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE *fp;
    fp=fopen("abc.txt","w+"); //when loaded into buffer all content is erased
    char string1[50];
    printf("Enter the content to write in file\n");
    gets(string1);
    fprintf(fp,"%s",string1);

    /** rewind(fp);  //rewind(fp);

    char string2[50];
    fgets(string2,50,fp);
    printf("%s",string2);
    return 0; **/
}
```

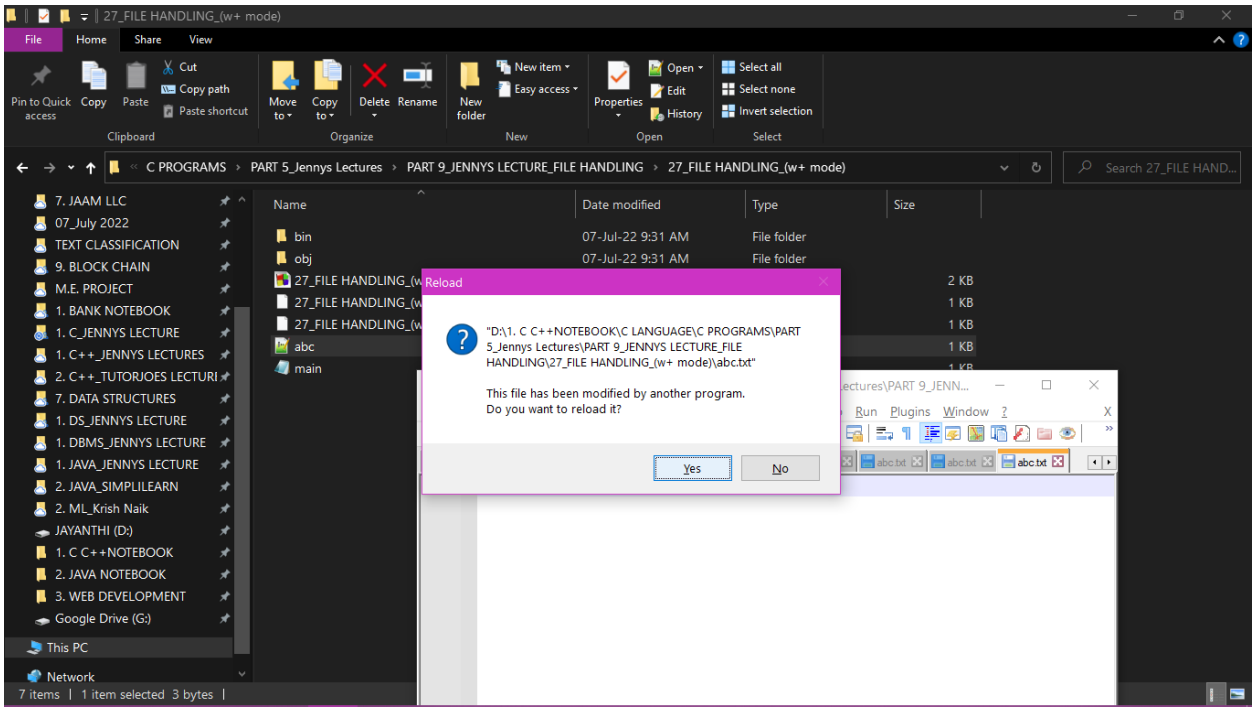

"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\27_F...
Enter the content to write in file
Hello
Process returned 0 (0x0) execution time : 3.537 s
Press any key to continue.

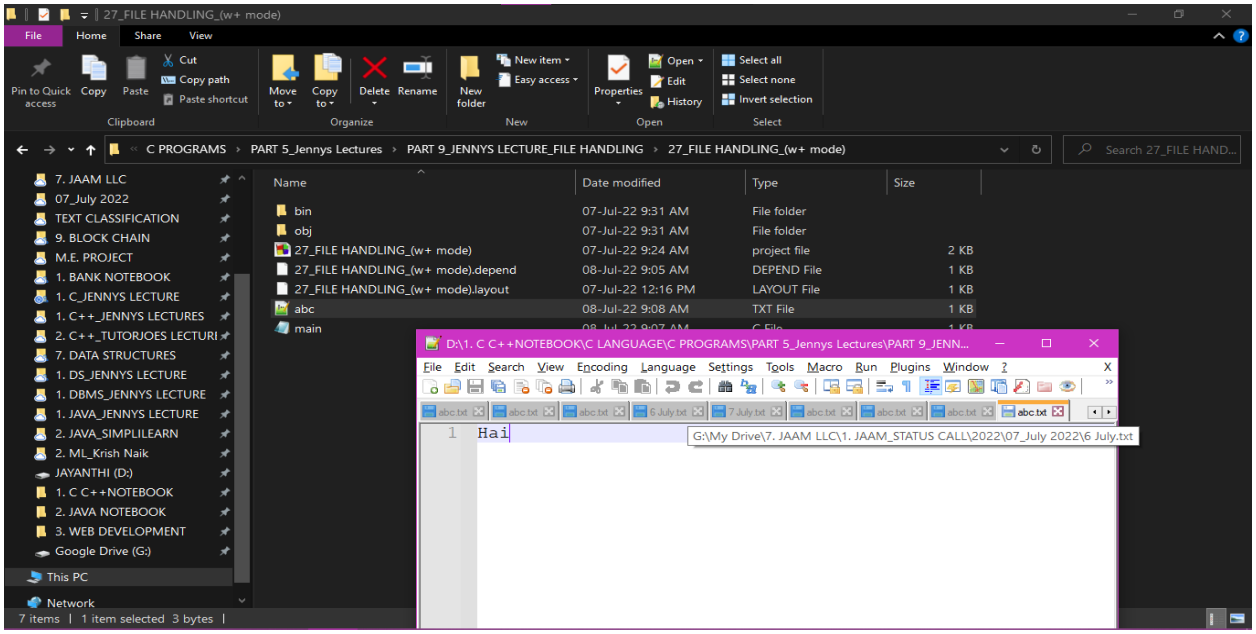

27_FILE HANDLING_(w+ mode)
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
C PROGRAMS
PART 5_Jennys Lectures
PART 9_JENNYS LECTURE_FILE HANDLING
27_FILE HANDLING_(w+ mode)
Search 27_FILE HAND...
7. JAAM LLC
07_July 2022
TEXT CLASSIFICATION
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
2. ML_Krish Naik
JAYANTHI (D:)
1. C C++NOTEBOOK
2. JAVA NOTEBOOK
3. WEB DEVELOPMENT
Google Drive (G:)
This PC
Network
Name
Date modified
Type
Size
bin
07-Jul-22 9:31 AM
File folder
obj
07-Jul-22 9:31 AM
File folder
27_FILE HANDLING_(w
2 KB
27_FILE HANDLING_(w
1 KB
27_FILE HANDLING_(w
1 KB
abc
1 KB
main
Reload
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\27_FILE HANDLING_(w+ mode)\abc.txt"
This file has been modified by another program.
Do you want to reload it?
Yes
No
Run
Plugins
Window
abc.txt
2
3
7 items | 1 item selected 5 bytes




```c
/** 27-File Handling (w+ mode) **/
/** It do both read/write but special purpose is to write **/
/** It will create a file, if file exist it will read or write **/

          /** First write and do read operation **/
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE *fp;
    fp=fopen("abc.txt","w+"); //when loaded into buffer all content is erased
    char string1[50];
    printf("Enter the content to write in file\n");
    gets(string1);
    fprintf(fp,"%s",string1);

    rewind(fp);

    char string2[50];
    fgets(string2,50,fp);
    printf("%s",string2);
    return 0;
}
```


"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\27_F...
Enter the content to write in file
Hai
Hai
Process returned 0 (0x0)   execution time : 2.258 s
Press any key to continue.


27_FILE HANDLING_(w+ mode)
File
Home
Share
View
C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 27_FILE HANDLING_(w+ mode)
Search 27_FILE HAND...
Name
Date modified
Type
Size
bin
07-Jul-22 9:31 AM
File folder
obj
07-Jul-22 9:31 AM
File folder
abc
main
Reload
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JENNYS LECTURE_FILE HANDLING\27_FILE HANDLING_(w+ mode)\abc.txt"
This file has been modified by another program.
Do you want to reload it?
Yes
No
7 items | 1 item selected 3 bytes


27_FILE HANDLING_(w+ mode)
File
Home
Share
View
C PROGRAMS › PART 5_Jennys Lectures › PART 9_JENNYS LECTURE_FILE HANDLING › 27_FILE HANDLING_(w+ mode)
Search 27_FILE HAND...
Name
Date modified
Type
Size
bin
07-Jul-22 9:31 AM
File folder
obj
07-Jul-22 9:31 AM
File folder
27_FILE HANDLING_(w+ mode)
07-Jul-22 9:24 AM
project file
2 KB
27_FILE HANDLING_(w+ mode).depend
08-Jul-22 9:05 AM
DEPEND File
1 KB
27_FILE HANDLING_(w+ mode).layout
07-Jul-22 12:16 PM
LAYOUT File
1 KB
abc
08-Jul-22 9:08 AM
TXT File
1 KB
main
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 ?
1 Hai
G:\My Drive\7. JAAM LLC\1. JAAM_STATUS CALL\2022\07_July 2022\6 July.txt
7 items | 1 item selected 3 bytes