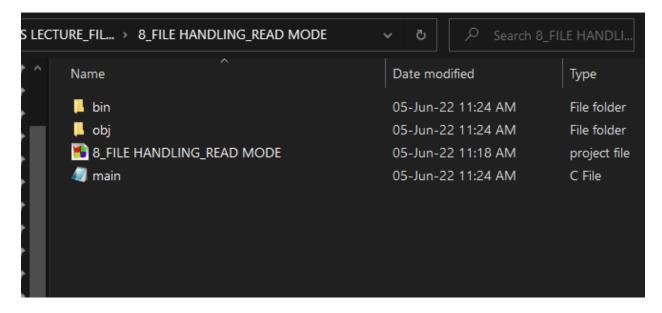
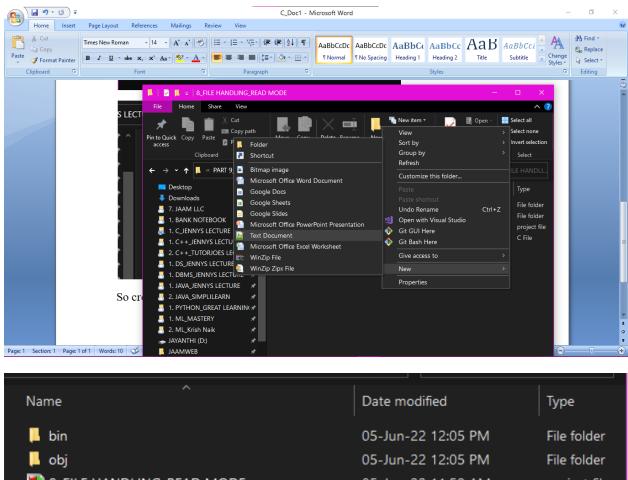


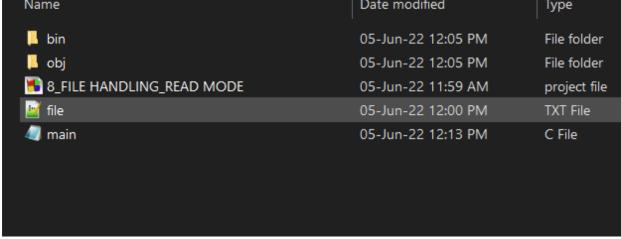
```
1
     #include <stdio.h>
2
     #include <stdlib.h>
     /** 8-FILE HANDLING-READ MODE **/
3
4
     /** READING A CHARACTER FROM A FILE BY PRINTING IT IN OUTPUT SCREEN **/
5
     int main()
6
         FILE *fp=NULL;
7
8
         fp=fopen("file.txt","r");//read mode will not create the file, so file should exist
9
         if(fp==NULL)
10
11
          printf("Error or file do not exist..!");
12
13
14
         char ch;
15
         ch=fgetc(fp);
16
17
         fclose(fp);
18
19
         return 0;
20
21
```

```
■ "D:\1.C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jenny
Error or file do not exist..!
Process returned 0 (0x0) execution time : 0.048 s
Press any key to continue.
■
```

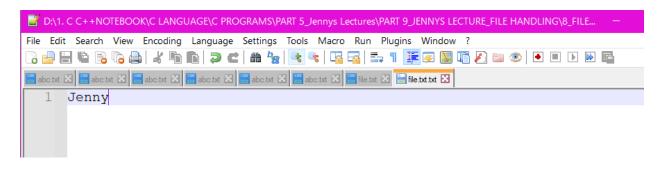


So create a file and read character from the file





New file named "file.txt" is created and read a character from this file.

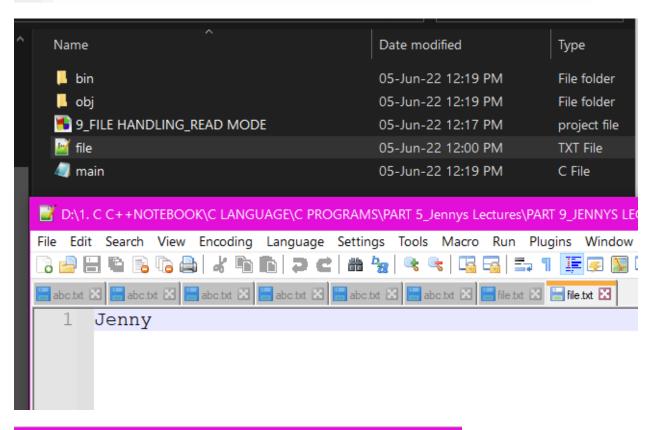


## Content present in the file is given above.

```
1 #include <stdio.h>
 2 #include <stdlib.h>
 3 /** 8-FILE HANDLING-READ MODE **/
 4 /** READ A CHARACTER FROM FILE BY PRINTING IN OUTPUT SCREEN **/
     int main()
   □ {
 6
7
         FILE *fp=NULL;
8
         char ch;
9
         fp=fopen("file.txt", "r");
10
         if(fp==NULL)
11
12
         printf("File do not exits/Error...!");
13
         exit(1);
14
15
         ch=fgetc(fp);
         printf("%c",ch);
16
17
18
         fclose(fp);
19
20
         return 0;
21
22
```

```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectu
J
Process returned 0 (0x0) execution time : 0.036 s
Press any key to continue.
```

```
1
     #include <stdio.h>
      #include <stdlib.h>
      /** 9-FILE HANDLING-READ MODE **/
 3
      /** READ A ENTIRE STRING FROM FILE (CHARACTER BY CHARACTER) BY PRINTING IN OUTPUT SCREEN
 4
 5
     int main()
 6
 7
          FILE *fp=NULL;
 8
          char ch;
 9
          fp=fopen("file.txt", "r");
10
          if(fp==NULL)
11
12
          printf("File do not exits/Error...!");
          exit(1);
13
14
15
          while(!feof(fp))
16
17
          ch=fgetc(fp);
          printf("%c",ch);
18
19
20
          fclose(fp);
21
22
          return 0;
23
24
```



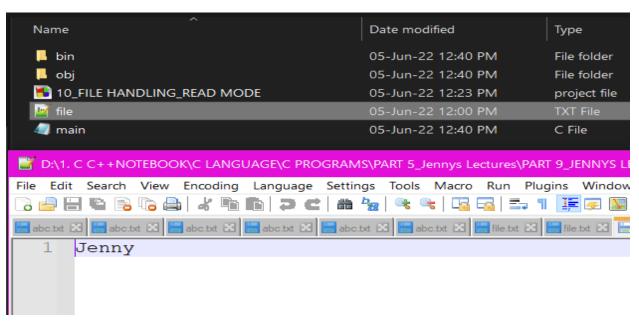
```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jenn

Jenny

Process returned 0 (0x0) execution time : 0.047 s

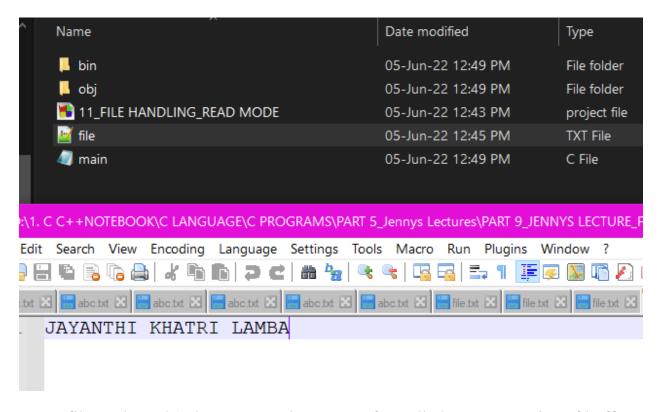
Press any key to continue.
```

```
/** 10-FILE HANDLING-READ MODE **/
     /** READING ENTIRE STRING FROM FILE USING fgets() function **/
 4
 5
     int main()
   □ {
 6
 7
          FILE *fp=NULL;
         char str[6];//Buffer should have number of character and one null character
 8
 9
         //In our file we have Jenny containing 5 character and to store this in buffer
10
         // we need 5+1=6 that is the size of array buffer
11
12
13
         fp=fopen("file.txt", "r");
14
         if (fp==NULL)
15
16
17
         printf("Error/File do not exist..!");
18
         exit(1);
19
20
21
         fgets(str, 6, fp);
           B arguments: name of stirng, no of characters to read including null character
22
         // that needed to be stored inside the buffer and file pointer
23
24
25
26
         return 0:
27
28
```



```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\P
Jenny
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```

```
#include <stdio.h>
 1
 2
      #include <stdlib.h>
 3
     /** 11-FILE HANDLING-READ MODE **/
     /** READING ENTIRE STRING OF SENTENCE FROM FILE USING fgets() function **/
 4
 5
     int main()
 6
 7
          FILE *fp=NULL;
 8
          char str[50];
9
          fp=fopen("file.txt", "r");
10
          if(fp==NULL)
11
           printf("File do not exist..!");
12
13
           exit(1);
14
15
          fgets(str, 45, fp);
          printf("%s", str);
16
17
18
          fclose(fp);
19
          return 0;
20
21
```



In our file we have 21 characters and one extra for null character, so size of buffer should be exactly 22 (i.e.) str[22], but we declared buffer size as str[50] and characters to read 45 even though we don't have 45 characters, fgets() will read

upto the 21 characters and put null characters at end since there is no other character in our file.

```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lect

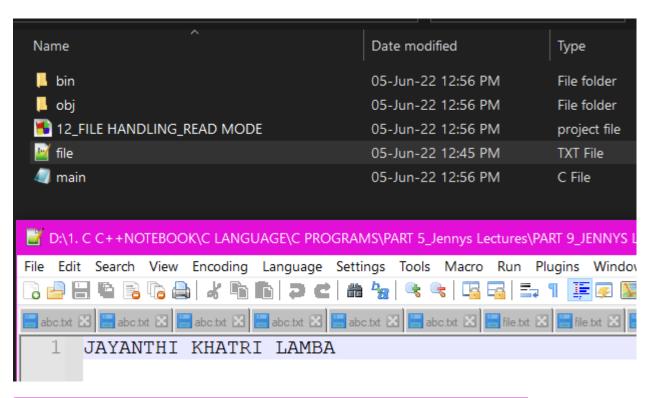
JAYANTHI KHATRI LAMBA

Process returned 0 (0x0) execution time : 0.031 s

Press any key to continue.

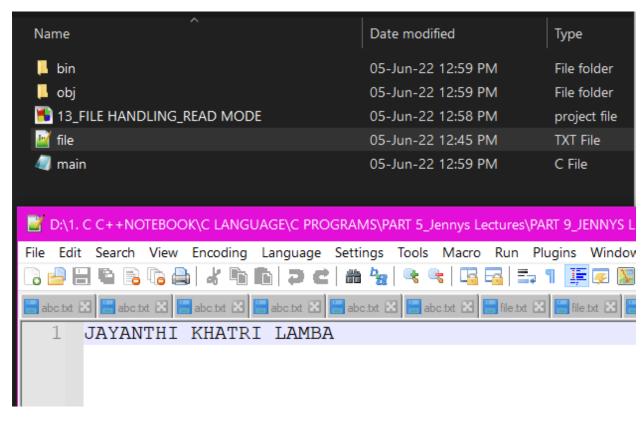
-
```

```
#include <stdio.h>
 2
     #include <stdlib.h>
     /** 12-FILE HANDLING-READ MODE **/
 3
     /** READING ENTIRE STRING OF SENTENCE FROM FILE USING fgets() function **/
 4
 5
     int main()
 6
   ₽{
 7
         FILE *fp=NULL;
 8
         char str[22];
 9
         fp=fopen("file.txt", "r");
10
         if(fp==NULL)
11
12
         printf("File do not exist..!");
13
          exit(1);
14
15
         fgets(str,22,fp);
16
         printf("%s",str);
17
18
        fclose(fp);
19
         return 0;
20
21
```



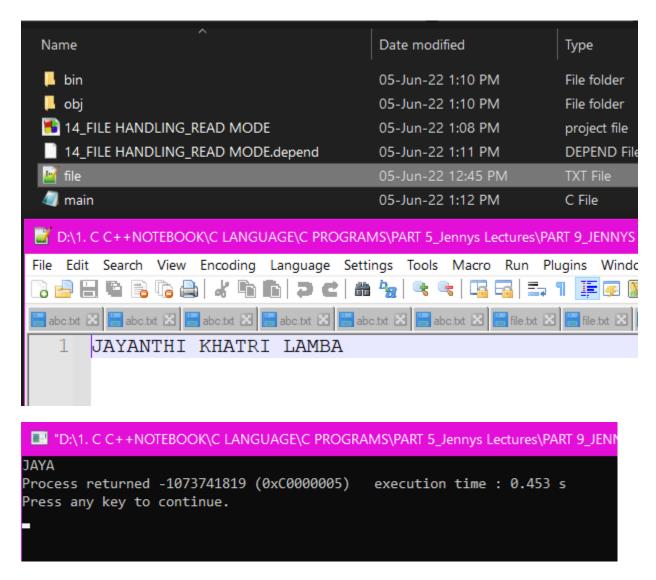
```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures
JAYANTHI KHATRI LAMBA
Process returned 0 (0x0) execution time: 0.047 s
Press any key to continue.
-
```

```
1
   #include <stdio.h>
 2
     #include <stdlib.h>
     /** 13-FILE HANDLING-READ MODE **/
 3
     /** READING ENTIRE STRING OF SENTENCE FROM FILE USING fgets() function **/
 4
 5
     int main()
 6
   □ {
 7
          FILE *fp=NULL;
 8
          char str[22];
9
          fp=fopen("file.txt","r");
10
          if(fp==NULL)
11
          printf("File do not exist..!");
12
13
          exit(1);
14
          fgets(str,5,fp);
15
          printf("%s",str);
16
17
18
          fclose(fp);
19
          return 0;
20
21
```



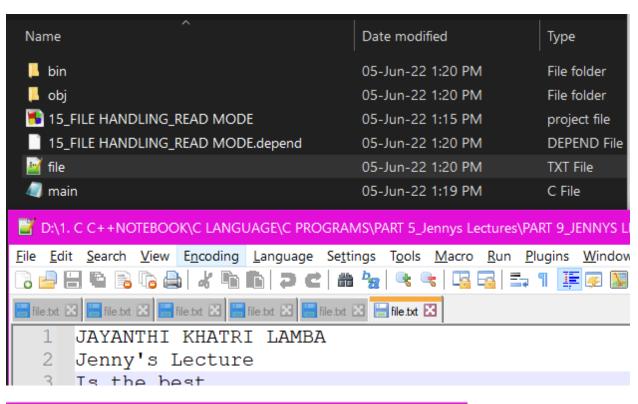
```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 9_JE
JAYA
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```

```
#include <stdio.h>
     #include <stdlib.h>
     /** 14-FILE HANDLING-READ MODE **/
 3
      /** READING ENTIRE STRING OF SENTENCE FROM FILE USING fgets() function **/
 4
 5
     int main()
 6
 7
          FILE *fp=NULL;
 8
          char str[2];
 9
          fp=fopen("file.txt", "r");
10
          if(fp==NULL)
11
12
           printf("File do not exist..!");
13
           exit(1);
14
          fgets(str,5,fp);
15
         //should not exceed buffer size str[2], we gave 5, it will read but occupies
16
17
         // memory of some other file using it or it is overwritten and cause problem
          printf("%s",str);
18
19
20
          fclose(fp);
21
          return 0;
22
23
```



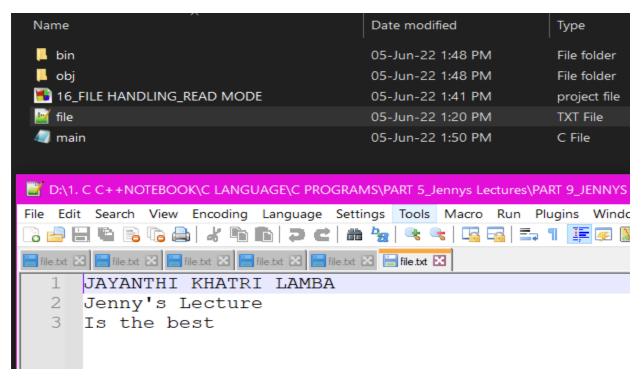
Process not returned with 0, something has happened and gives like warning, because we have overwritten the memory after the maximum size of the buffer.

```
#include <stdio.h>
      #include <stdlib.h>
      /** 15-FILE HANDLING-READ MODE **/
 3
 4
      /** READING MORE THAN ONE SENTENCE FROM FILE USING fgets() function **/
 5
 6
    □ {
 7
         FILE *fp=NULL;
 8
          char str[50];
 9
          fp=fopen("file.txt", "r");
10
          if(fp==NULL)
11
          printf("File do not exist..!");
12
13
          exit(1);
14
15
         fgets(str,50,fp);
16
         //fgets() will consider the new line character as end of line and stops reading
17
         // a file and terminates with null character
          printf("%s",str);
18
19
          //So only one sentence is only read from a file
20
21
          fclose(fp);
22
          return 0;
23
24
```



## □ "D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys JAYANTHI KHATRI LAMBA Process returned 0 (0x0) execution time : 0.031 s Press any key to continue.

```
#include <stdio.h>
      #include <stdlib.h>
 3
      /** 16-FILE HANDLING-READ MODE **/
      /** READING MORE THAN ONE SENTENCE FROM FILE USING fgets() function **/
 4
 5
 6
 7
         FILE *fp=NULL;
8
         char str[7];
 9
          fp=fopen("file.txt", "r");
10
         if (fp==NULL)
11
12
          printf("File do not exist..!");
13
          exit(1);
14
         while(!feof(fp)) //buffer is overwritten every time, printed with new line till end
15
16
          fgets(str,7,fp);//read first 6 character and put in buffer with one null & prints it
17
          printf("%s", str);
18
19
20
          fclose(fp);
21
          return 0;
22
```



```
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JAYANTHI KHATRI LAMBA
Jenny's Lecture
Is the best
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```