

```
1  #include <stdio.h>
2  #include <dirent.h>
3  #include <string.h>
4
5  int sentinal = 1;
6  const char stand_comm[7][10] = {"help", "create", "insert", "rename", "del", "exit", "dir"};
7
8
9  int isCommand(char pre[], char com[]) {
10     int i;
11     int cmp1 = strcmp(pre, ">>");
12     if(cmp1 == 0) {
13         for(i = 0; i < 7; i++) {
14             int cmp2 = strcmp(com, stand_comm[i]);
15             if(cmp2 == 0) return i;
16         }
17         return 7;
18     }
19     return -1;
20 }
21
22
23 void main() {
24
25     char comm[2][30];
26
27     printf("Program is started. Enter command: \n");
28     while(sentinal > 0) {
```

```
28 while(sentinal > 0){
29     int i;
30     for(i = 0; i < 2; i++){
31         scanf("%s", comm[i]);
32     }
33
34     int idxCom = isCommand(comm[0], comm[1]);
35     if(idxCom >= 0){
36         switch(idxCom){
37             case 0:{
38                 printf("Defined commands:\n\t>> help\n\t>> create filename.txt\n\t>> insert filename.txt sample data\n");
39                 printf("\t>> rename newname filename.txt\n\t>> del filename.txt\n\t>> dir\n");
40                 break;
41             }
42             case 1: {
43                 char file[30];
44                 scanf("%s", file);
45                 FILE *fp;
46
47                 fp = fopen(file, "w");
48                 if(fp == NULL){
49                     printf("\n%s file is not able opened.\n", file);
50                     exit(1);
51                 }
52
53                 fprintf(fp, "%s", NULL);
54                 fclose(fp);
55             }
```

```
56         printf("\n%s file is created successfully.\n", file);
57         break;
58     }
59     case 2:{
60         char file[30], data[100];
61         scanf("%s", file);
62         gets(data);
63         FILE *fp;
64
65         fp = fopen(file, "w");
66         if(fp == NULL){
67             printf("\n%s file is not able opened.\n", file);
68             exit(1);
69         }
70         fprintf(fp, "%s", data);
71         fclose(fp);
72
73         printf("\nData is written in the file successfully.\n");
74         break;
75     }
76     case 3:{
77         char file[30], newname[100];
78         scanf("%s", newname);
79         scanf("%s", file);
80         int res = rename(file, newname);
81         if(res == 0){
82             printf("\nThe file is renamed successfully.\n");
83         }else{
```

```
83         }else{
84             printf("\nThe file could not be renamed.\n");
85         }
86         break;
87     }
88     case 4:{
89         char file[30];
90         scanf("%s", file);
91         if(remove(file) == 0){
92             printf("\nThe files is deleted successfully.\n");
93         }else{
94             printf("\nThe file is not deleted.\n");
95         }
96         break;
97     }
98     case 5:{
99         sentinal = 0;
100         break;
101     }
102     case 6:{
103         DIR *d;
104         struct dirent *dir;
105         d = opendir(".");
106         if (d) {
107             while ((dir = readdir(d)) != NULL) {
108                 printf("%s\n", dir->d_name);
109             }
110             closedir(d);
```

```
110         closedir(d);
111     }
112     break;
113 }
114 default:{
115     printf("\nError: Command is not defined.\n");
116     break;
117 }
118 }
119 }else{
120     printf("\nError: Given command is wrong or no prefix command.\n");
121     break;
122 }
123 }
124
125 }
126
```

Program is started. Enter command:

>> dir

```
.  
..  
TOS_Lab01.c  
TOS_Lab01.exe  
TOS_Lab01.o
```

>> help

Defined commands:

```
>> help  
>> create filename.txt  
>> insert filename.txt sample data  
>> rename newname filename.txt  
>> del filename.txt  
>> dir
```

>> create filename.txt

filename.txt file is created successfully.

>> dir

```
.  
..  
filename.txt  
TOS_Lab01.c  
TOS_Lab01.exe  
TOS_Lab01.o
```

DS > Lab01

Search Lab01

Name	Date modified	Type
file	9/14/2021 2:37 PM	Text Document
TOS_Lab01	9/14/2021 2:32 PM	C source file
TOS_Lab01	9/14/2021 2:32 PM	Application
TOS_Lab01.o	9/14/2021 2:32 PM	O File

6 bytes

file - Notepad

File Edit Format View Help

hello

Ln 1, Col 1 100% Windows (CRLF)



```
..
filename.txt
TOS_Lab01.c
TOS_Lab01.exe
TOS_Lab01.o
>> rename file.txt filename.txt

The file is renamed successfully.
>> dir
.
..
file.txt
TOS_Lab01.c
TOS_Lab01.exe
TOS_Lab01.o
>> insert file.txt hello

Data is written in the file successfully.
>> del file.txt

The files is deleted successfully.
>> dir
.
..
TOS_Lab01.c
TOS_Lab01.exe
TOS_Lab01.o
>> exit

Process returned 0 (0x0)   execution time : 469.284 s
Press any key to continue.
```