

```

1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4  #include <sys/stat.h>
5  #include <sys/types.h>
6  #include <unistd.h>
7  #include <errno.h>
8  #include <dirent.h>
9  int main()
10 {
11     char input_command[100];
12     char words[3][100];
13     char str[1000];
14     struct dirent *de ;
15     DIR *dr ;
16     FILE *fp;
17     char command_list[6][30] = {
18         "dir",
19         "create",
20         "input",
21         "rename",
22         "del",
23     };
24     int i = 0, current_command = 0;
25     printf("\n\n##### Yamar command oruulah ve? #####\n\n");
26     printf(">>> ");
27     fgets(input_command, sizeof(input_command), stdin);
28     input_command[strlen(input_command) - 1] = '\0';
29     // Орж ирсэн string-г split хийх
30     char *word = strtok(input_command, " ");
31     while (word != NULL)
32     {
33         strcpy(words[i], word);
34         word = strtok(NULL, " ");
35         i++;
36     }
37     //Гараас орж ирсэн команд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
38     for (i = 0; i < 5; i++)
39         if (strcmp(words[0], command_list[i]) == 0)
40         {
41             current_command = i;
42             break;
43         };
44     switch(current_command){
45         // dir command
46         case 0:
47             dr = opendir(".");
48             if (dr == NULL) {
49                 printf("Could not open current directory");
50             }
51             while ((de = readdir(dr)) != NULL){
52                 printf("%s\n", de->d_name);
53             }
54             closedir(dr);
55             break;

```



```
lab1.c x
lab1.c > main()
43     };
44     switch(current_command){
45         // dir command
46         case 0:
47             dr = opendir(".");
48             if (dr == NULL) {
49                 printf("Could not open current directory");
50             }
51             while ((de = readdir(dr)) != NULL){
52                 printf("%s\n", de->d_name);
53             }
54             closedir(dr);
55             break;
56         // @айл үүсгэх
57         case 1:
58             fp = fopen(words[1], "w");
59             printf("File amjilttai uusgelee \n");
60             break;
61         // @айлд өгөгдөл оруулах
62         case 2:
63             printf(" Oguulberee oruulna uu : ");
64             fp = fopen(words[1], "w"); // "w" write mode
65             if(fp==NULL)
66             {
67                 printf("File iig neehed aldaa garlaa \n");
68                 exit(1);
69             }
70             fgets(str, sizeof str, stdin);
71             fprintf(fp,"%s",str);
72             fclose(fp);
73             printf("File ruu amjilttai input oruullaa \n");
74             break;
75         // @айлийн нэрийг солих
76         case 3:
77             printf("%s to %s", words[1], words[2]);
78             if (rename(words[1], words[2])==0){
79                 printf("File iin neriig amjilttai soliloo \n");
80             } else {
81                 printf("File iin neriig solihod aldaa garlaa \n");
82             }
83             break;
84         // @айл устгах
85         case 4:
86             if (remove(words[1])==0){
87                 printf("Amjilttai ustgalaa \n");
88             }else {
89                 printf("Alda garlaa \n");
90             }
91             break;
92     }
93     return 0;
94 }
95
96
```





EXPLORER

LAB-1

lab1

lab1.c

lab1.c

```
1  lab1.c > main()
2  35      1++;
3  36  }
4  37  //Гараас орж ирсэн команд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
5  38  for (i = 0; i < 5; i++)
6  39      if (strcmp(words[0], command_list[i]) == 0)
7  40      {
8  41          current_command = i;
9  42          break;
10 43      };
11 44  switch(current_command){
12 45      // dir command
13 46      case 0:
14 47          dr = opendir(".");
15 48          if (dr == NULL) {
16 49              printf("Could not open current directory");
17 50          }
18 51          while ((de = readdir(dr)) != NULL){
19 52              printf("%s\n", de->d_name);
20 53          }
21 54          closedir(dr);
22 55          break;
23 56      // @айл үүсгэх
24 57      case 1:
25 58          fp = fopen(words[1], "w");
26 59          printf("File amjilttai uusgelee \n");
27 60          break;
28 61      // @айлд өгөгдөл оруулах
29 62      case 2:
30 63          printf(" Oguulberee oruulna uu : ");
31 64          fp = fopen(words[1], "w"); // "w" write mode
32 65          if (fp == NULL)
```

PROBLEMS OUTPUT TERMINAL

1: bash

```
saruul@immortal:~/Lesson/os/lab-1$ ./lab1
```

```
##### Yamar command oruulah ve? #####
```

```
>> dir
```

```
.
```

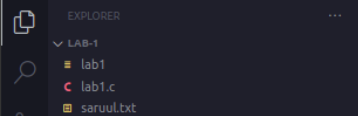
```
lab1
```

```
..
```

```
lab1.c
```

```
saruul@immortal:~/Lesson/os/lab-1$
```

> OUTLINE



```
lab1.c x
lab1.c > main()
35     1++;
36 }
37 //Гараас орж ирсэн команд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
38 for (i = 0; i < 5; i++)
39     if (strcmp(words[0], command_list[i]) == 0)
40     {
41         current_command = i;
42         break;
43     };
44 switch(current_command){
45     // dir command
46     case 0:
47         dr = opendir(".");
48         if (dr == NULL) {
49             printf("Could not open current directory");
50         }
51         while ((de = readdir(dr)) != NULL){
52             printf("%s\n", de->d_name);
53         }
54         closedir(dr);
55         break;
56     // Өйл үүсгэх
57     case 1:
58         fp = fopen(words[1], "w");
59         printf("File amjilttai uusgelee \n");
60         break;
61     // Өйлд өгөгдөл оруулах
62     case 2:
63         printf(" Oguulbersee oruulna uu : ");
64         fp = fopen(words[1], "w"); // "w" write mode
65         if (fp == NULL)
```

PROBLEMS OUTPUT TERMINAL

1: bash + - x

```
saruul@immortal:~/Lesson/os/lab-1$ ./lab1
```

```
##### Yamar command oruulah ve? #####
```

```
>> create saruu.txt
File amjilttai uusgelee
```

```
saruul@immortal:~/Lesson/os/lab-1$
```

EXPLORER

- LAB-1
 - lab1
 - lab1.c
 - saruul.txt

lab1.c

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
main()
{
    int i;
    //Гараас орж ирсэн команд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
    for (i = 0; i < 5; i++)
        if (strcmp(words[i], command_list[i]) == 0)
        {
            current_command = i;
            break;
        };
    switch(current_command){
        // dir command
        case 0:
            dr = opendir(".");
            if (dr == NULL) {
                printf("Could not open current directory");
            }
            while ((de = readdir(dr)) != NULL){
                printf("%s\n", de->d_name);
            }
            closedir(dr);
            break;
        // @айл үүсгэх
        case 1:
            fp = fopen(words[i], "w");
            printf("File amjilttai uusgelee \n");
            break;
        // @айлд өгөгдөл оруулах
        case 2:
            printf(" Oguulbersee oruulna uu : ");
            fp = fopen(words[i], "w"); // "w" write mode
            if (fp == NULL)
```

saruul.txt

```
1 Hello NUM
2
```

PROBLEMS OUTPUT TERMINAL

1: bash

```
saruul@immortal:~/Lesson/os/lab-1$ ./lab1

##### Yamar command oruulah ve? #####

>> input saruul.txt
Oguulbersee oruulna uu : Hello NUM
File ruu amjilttai input oruullaa
saruul@immortal:~/Lesson/os/lab-1$
```

OUTLINE

0 0 0 Saruul Live Share Connected to Discord

Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text

LAB-1

lab1

lab1.c

somethingnew.txt

lab1.c

main()

```

35     1++;
36 }
37 //Гараас орж ирсэн команд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
38 for (i = 0; i < 5; i++)
39     if (strcmp(words[0], command_list[i]) == 0)
40     {
41         current_command = i;
42         break;
43     };
44 switch(current_command){
45     // dir command
46     case 0:
47         dr = opendir(".");
48         if (dr == NULL) {
49             printf("Could not open current directory");
50         }
51         while ((de = readdir(dr)) != NULL){
52             printf("%s\n", de->d_name);
53         }
54         closedir(dr);
55         break;
56     // 0айл үүсгэх
57     case 1:
58         fp = fopen(words[1], "w");
59         printf("File amjilttai uusgelee \n");
60         break;
61     // 0айлд өгөгдөл оруулах
62     case 2:
63         printf(" Oguulberree oruulna uu : ");
64         fp = fopen(words[1], "w"); // "w" write mode
65         if (fp == NULL)

```

saruul.txt (deleted)

somethingnew.txt

```

1 Hello NUM
2

```

PROBLEMS

OUTPUT

TERMINAL

```

saruul@immortal:~/Lesson/os/lab-1$ ./lab1

##### Yamar command oruulah ve? #####

>> input saruul.txt
Oguulberree oruulna uu : Hello NUM
File ruu amjilttai input oruullaa
saruul@immortal:~/Lesson/os/lab-1$ ./lab1

##### Yamar command oruulah ve? #####

>> rename saruul.txt somethingnew.txt
saruul.txt to somethingnew.txtFile iin neriig amjilttai soliloo
saruul@immortal:~/Lesson/os/lab-1$

```

1: bash

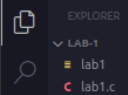
+

□

✖

^

×



EXPLORER

LAB-1

lab1

lab1.c

C lab1.c

```
C lab1.c > main()
35     int i;
36 }
37 //Гараас орж ирсэн команд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
38 for (i = 0; i < 5; i++)
39     if (strcmp(words[i], command_list[i]) == 0)
40     {
41         current_command = i;
42         break;
43     };
44 switch(current_command){
45     // dir command
46     case 0:
47         dr = opendir(".");
48         if (dr == NULL) {
49             printf("Could not open current directory");
50         }
51         while ((de = readdir(dr)) != NULL){
52             printf("%s\n", de->d_name);
53         }
54         closedir(dr);
55         break;
56     // Өйл үүсгэх
57     case 1:
58         fp = fopen(words[i], "w");
59         printf("File amjilttai uusgelee \n");
60         break;
61     // Өйлд өгөгдөл оруулах
62     case 2:
63         printf("Oguulbersee oruulna uu : ");
64         fp = fopen(words[i], "w"); // "w" write mode
65         if (fp == NULL)
```

saruul.txt (deleted)

somethingnew.txt (deleted)

somethingnew.txt

1 Hello NUM

2

PROBLEMS OUTPUT TERMINAL

1: bash

```
saruul@immortal:~/Lesson/os/lab-1$ ./lab1
```

```
##### Yamar command oruulah ve? #####
```

```
>> input saruul.txt
```

```
Oguulbersee oruulna uu : Hello NUM
```

```
File ruu amjilttai input oruullaa
```

```
saruul@immortal:~/Lesson/os/lab-1$ ./lab1
```

```
##### Yamar command oruulah ve? #####
```

```
>> rename saruul.txt somethingnew.txt
```

```
saruul.txt to somethingnew.txtFile iin neriig amjilttai soliloo
```

```
saruul@immortal:~/Lesson/os/lab-1$ ./lab1
```

```
##### Yamar command oruulah ve? #####
```

```
>> del somethingnew.txt
```

```
Amjilttai ustgalaa
```

```
saruul@immortal:~/Lesson/os/lab-1$
```

OUTLINE