EXPLORER

LAB-1

lab1.c

lab1.c

lab1.c > main()

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <unistd.h>
#include <errno.h>
#include <dirent.h>
int main()
{
    char input_command[100];
    char words[3][100];
    char str[1000];
    struct dirent *de ;
    DIR *dr ;
    FILE  *fp;
    char command_list[6][30] = {
        "dir",
        "create",
        "input",
        "rename",
        "del",
        };
    int i = 0, current_command = 0;
    printf("\n\n############### Yamar command oruulah ve?  #################\n\n");
    printf(">> ");
    fgets(input_command, sizeof(input_command), stdin);
    input_command[strcspn(input_command, "\n")] = '\0';
    // Орж ирсэн string-г split хийх
    char *word = strtok(input_command, " ");
    while (word != NULL)
    {
        strcpy(words[i], word);
        word = strtok(NULL, " ");
        i++;
    }
    //Гараас орж ирсэн комманд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
    for (i = 0; i < 5; i++)
        if (strcmp(words[0], 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;
```

OUTLINE

EXPLORER

LAB-1

lab1.c

lab1.c

lab1.c > main()

```c
        };
    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;
        // Файл үүсгэх
        case 1:
            fp = fopen(words[1], "w");
            printf("File amjilttai uusgelee \n");
            break;
        // Файлд өгөгдөл оруулах
        case 2:
            printf(" Oguulberee oruulna uu : ");
            fp = fopen(words[1], "w");  // "w" write mode
            if(fp==NULL)
            {
                printf("File iig neehed aldaa garlaa \n");
                exit(1);
            }
            fgets(str, sizeof str, stdin);
            fprintf(fp,"%s",str);
            fclose(fp);
            printf("File ruu amjilttai input oruullaa \n");
            break;
        // Файлийн нэрийг солих
        case 3:
            printf("%s to %s", words[1], words[2]);
            if (rename(words[1], words[2])==0){
                printf("File iin neriig amjilttai soliloo \n");
            } else {
                printf("File iin neriig solihod aldaa garlaa \n");
            }
            break;
        // Файл устгах
        case 4:
            if (remove(words[1])==0){
                printf("Amjilttai ustgalaa \n");
            }else {
                printf("Alda garlaa \n");
            }
            break;
        }
        return 0;
    }
```

OUTLINE

File Edit Selection View Go Run Terminal Help

EXPLORER

LAB-1
- lab1
- lab1.c

lab1.c

lab1.c > main()

```
        i++;
    }
    //Гараас орж ирсэн комманд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
    for (i = 0; i < 5; i++)
        if (strcmp(words[0], 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;
        // Файл үүсгэх
        case 1:
            fp = fopen(words[1], "w");
            printf("File amjilttai uusgelee \n");
            break;
        // Файлд өгөгдөл оруулах
        case 2:
            printf(" Oguulberee oruulna uu : ");
            fp = fopen(words[1], "w");  // "w" write mode
            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

0 0 Saruul Live Share Connected to Discord

Ln 62, Col 16 Spaces: 4 UTF-8 LF C Linux

EXPLORER

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

lab1.c

lab1.c > main()

```
        i++;
    }
    //Гараас орж ирсэн комманд нь манай програмд тодорхойлогдсон эсэхийг хайж шалгах
    for (i = 0; i < 5; i++)
        if (strcmp(words[0], 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;
        // Файл үүсгэх
        case 1:
            fp = fopen(words[1], "w");
            printf("File amjilttai uusgelee \n");
            break;
        // Файлд өгөгдөл оруулах
        case 2:
            printf(" Oguulberee oruulna uu : ");
            fp = fopen(words[1], "w");  // "w" write mode
            if(fp==NULL)
```

PROBLEMS OUTPUT TERMINAL

1: bash

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

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

>> create saruul.txt
File amjilttai uusgelee
saruul@immortal:~/Lesson/os/lab-1$
```

OUTLINE

File Edit Selection View Go Run Terminal Help

EXPLORER

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

lab1.c

```
35          i++;
36      }
37      //Гараас орж ирсэн комманд 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          // Файл үүсгэх
57          case 1:
58              fp = fopen(words[1], "w");
59              printf("File amjilttai uusgelee \n");
60              break;
61          // Файлд өгөгдөл оруулах
62          case 2:
63              printf(" Oguulberee oruulna uu : ");
64              fp = fopen(words[1], "w");  // "w" write mode
65              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
 Oguulberee oruulna uu : Hello NUM
File ruu amjilttai input oruullaa
saruul@immortal:~/Lesson/os/lab-1$
```

OUTLINE

0 0 Saruul Live Share Connected to Discord

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

somethingnew.txt - lab-1 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

LAB-1
- lab1
- lab1.c
- somethingnew.txt

lab1.c

```
35          i++;
36      }
37      //Гараас орж ирсэн комманд нь манай программд 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          // Файл үүсгэх
57          case 1:
58              fp = fopen(words[1], "w");
59              printf("File amjilttai uusgelee \n");
60              break;
61          // Файлд өгөгдөл оруулах
62          case 2:
63              printf(" Oguulberee 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

1: bash

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


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

>> input saruul.txt
 Oguulberee 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$
```

OUTLINE

0 0 Saruul Live Share Connected to Discord

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

somethingnew.txt (deleted) - lab-1 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

LAB-1
- lab1
- lab1.c

lab1.c

```
35          i++;
36      }
37      //Гараас орж ирсэн комманд нь манай программд 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          // Файл үүсгэх
57          case 1:
58              fp = fopen(words[1], "w");
59              printf("File amjilttai uusgelee \n");
60              break;
61          // Файлд өгөгдөл оруулах
62          case 2:
63              printf(" Oguulberee oruulna uu : ");
64              fp = fopen(words[1], "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
 Oguulberee 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

0 0 Saruul Live Share Connected to Discord

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