

```
main.c
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <sys/ipc.h>
5 #include <sys/msg.h>
6 #include <unistd.h>
7
8 #define MAX_SIZE 100
9
10 struct msg_buffer {
11     long msg_type;
12     char msg_text[MAX_SIZE];
13 };
14
15 int main() {
16     key_t key = ftok("msgqueuefile", 65);
17     int msgid = msgget(key, 0666 | IPC_CREAT);
18     if (msgid == -1) {
19         perror("msgget");
20         exit(1);
21     }
22
23     if (fork() == 0) {
24         struct msg_buffer message;
25         message.msg_type = 1;
26         strcpy(message.msg_text, "Hello from child process!");
27     }
28 }
```

```
Output
Child sent message to message queue.
Parent received: Hello from child process!

==> Code Execution Successful ==>
```



Asia's  
Safest  
Bank for  
your  
wealth,  
wherever  
you are

With DBS  
Treasures, your  
financial world is  
just a click away,  
no matter where  
life leads you.

Open a DBS  
Treasures account

programiz.com/c-programming/online-compiler/

Programiz  
C Online Compiler

Programiz PRO

main.c

Run

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4
5 #define MAX_FILES 100
6
7 typedef struct {
8     char file_name[50];
9     int file_size;
10 } File;
11
12 int main() {
13     File directory[MAX_FILES];
14     int file_count = 0;
15
16     while (1) {
17         printf("\nSingle-Level Directory:\n");
18         printf("1. Add File\n");
19         printf("2. Delete File\n");
20         printf("3. Display Files\n");
21         printf("4. Exit\n");
22         printf("Enter your choice: ");
23
24         int choice;
25         scanf("%d", &choice);
26
27         if (choice == 1) {
28             printf("Single-Level Directory:\n");
29             printf("1. Add File\n");
30             printf("2. Delete File\n");
31             printf("3. Display Files\n");
32             printf("4. Exit\n");
33             printf("Enter your choice: 1\n");
34             printf("Enter file name: file1.txt\n");
35             printf("Enter file size: 100\n");
36             printf("File added successfully.\n");
37
38             file_count++;
39             if (file_count == MAX_FILES) {
40                 printf("Directory is full.\n");
41             }
42         }
43         else if (choice == 2) {
44             printf("Single-Level Directory:\n");
45             printf("1. Add File\n");
46             printf("2. Delete File\n");
47             printf("3. Display Files\n");
48             printf("4. Exit\n");
49             printf("Enter your choice: 1\n");
50             printf("Enter file name: file2.txt\n");
51             printf("Enter file size: 200\n");
52             printf("File added successfully.\n");
53
54             file_count++;
55             if (file_count == MAX_FILES) {
56                 printf("Directory is full.\n");
57             }
58         }
59         else if (choice == 3) {
60             printf("Single-Level Directory:\n");
61             printf("1. Add File\n");
62             printf("2. Delete File\n");
63             printf("3. Display Files\n");
64             printf("4. Exit\n");
65             printf("Enter your choice: 3\n");
66         }
67         else {
68             printf("Invalid choice. Please try again.\n");
69         }
70     }
71 }
```

Single-Level Directory:

1. Add File

2. Delete File

3. Display Files

4. Exit

Enter your choice: 1

Enter file name: file1.txt

Enter file size: 100

File added successfully.

Single-Level Directory:

1. Add File

2. Delete File

3. Display Files

4. Exit

Enter your choice: 1

Enter file name: file2.txt

Enter file size: 200

File added successfully.

Single-Level Directory:

1. Add File

2. Delete File

3. Display Files

4. Exit

Enter your choice: 3

26°C  
Mostly cloudy

Search

ENG  
IN

08:41  
11-12-2024

Programiz PRO

Premium  
Courses by  
Programiz

Learn More