

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 41
OS Practical 10

Write a C programs which can perform FIFO reader and FIFO writer using mkfifo system call.

Writer Code :

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<fcntl.h>
#include<sys/stat.h>

void main()
{
    printf("Enter message : \n");
    mkfifo("myfifo", 0666);
    int fd = open("myfifo", O_CREAT | O_WRONLY);
    char msg [100];
    scanf("%[^\n]s", msg);
    write(fd, msg, sizeof(msg));
    close(fd);
    // unlink("myfifo");
    printf("\n");
}
```

Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA Batch - 41

OS Practical 10

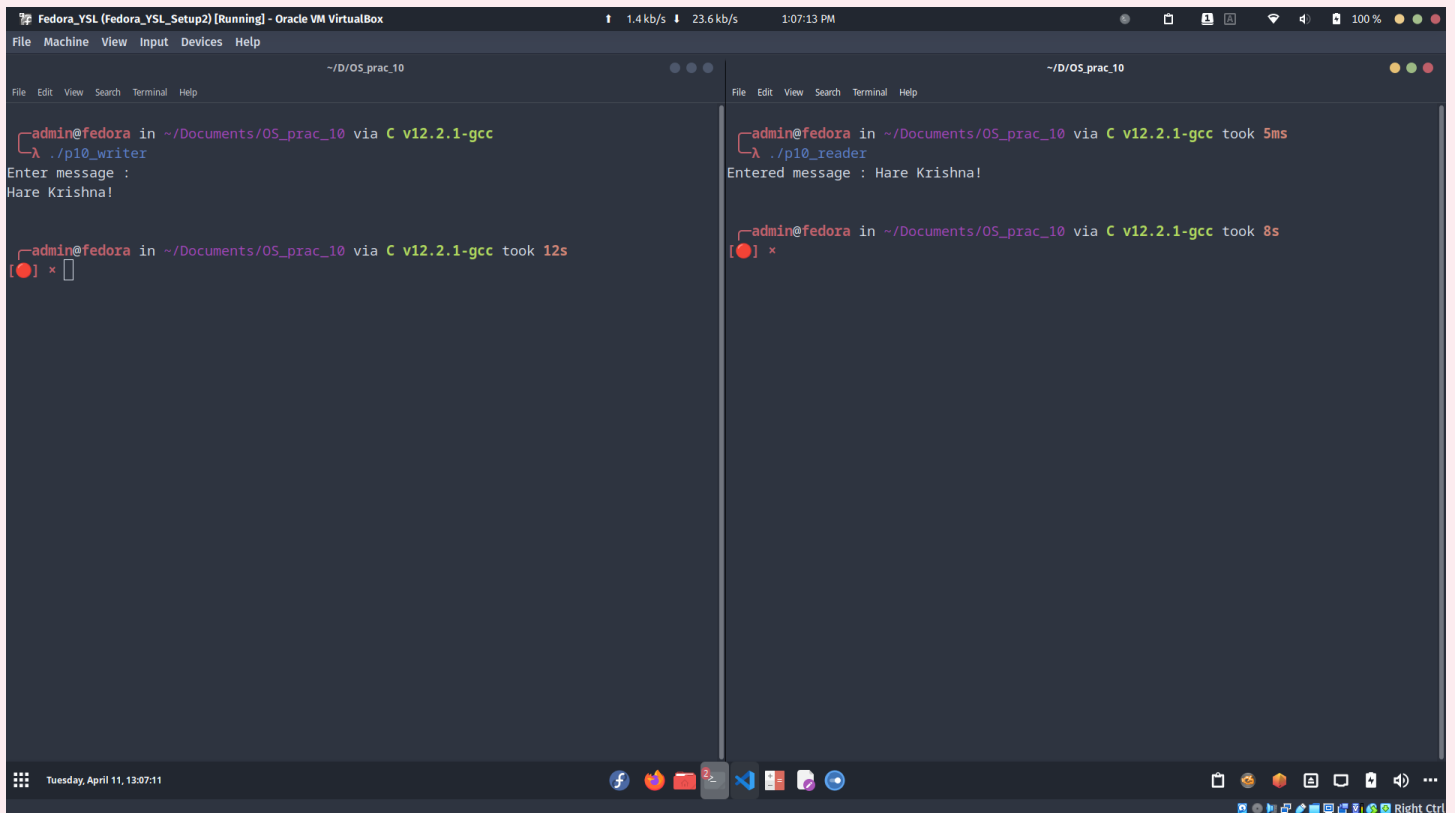
Reader Code :

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<fcntl.h>

void main()
{
    int fd = open("myfifo", O_RDONLY);
    char msg[100];
    read(fd, msg, sizeof(msg));
    printf("Entered message : %s\n", msg);
    close(fd);
    // unlink("myfifo");
    printf("\n");
}
```

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 41
OS Practical 10

Output :



The screenshot displays two terminal windows within an Oracle VM VirtualBox environment. The left window shows the execution of the `p10_writer` program, which prompts for a message and outputs "Hare Krishna!". The right window shows the execution of the `p10_reader` program, which reads the message "Hare Krishna!". Both windows show the user as `admin@fedora` in the directory `~/Documents/OS_prac_10`, using the `v12.2.1-gcc` compiler.

```
Fedora_YSL (Fedora_YSL_Setup2) [Running] - Oracle VM VirtualBox
1.4 kb/s | 23.6 kb/s | 1:07:13 PM

File Machine View Input Devices Help

~/D/OS_prac_10

admin@fedora in ~/Documents/OS_prac_10 via C v12.2.1-gcc
λ .p10_writer
Enter message :
Hare Krishna!

admin@fedora in ~/Documents/OS_prac_10 via C v12.2.1-gcc took 12s
[●] x

~/D/OS_prac_10

admin@fedora in ~/Documents/OS_prac_10 via C v12.2.1-gcc took 5ms
λ .p10_reader
Entered message : Hare Krishna!

admin@fedora in ~/Documents/OS_prac_10 via C v12.2.1-gcc took 8s
[●] x

Tuesday, April 11, 13:07:11
[Taskbar icons: Facebook, Firefox, File Explorer, VS Code, etc.]
[System tray: Network, Volume, Right Ctrl]
```