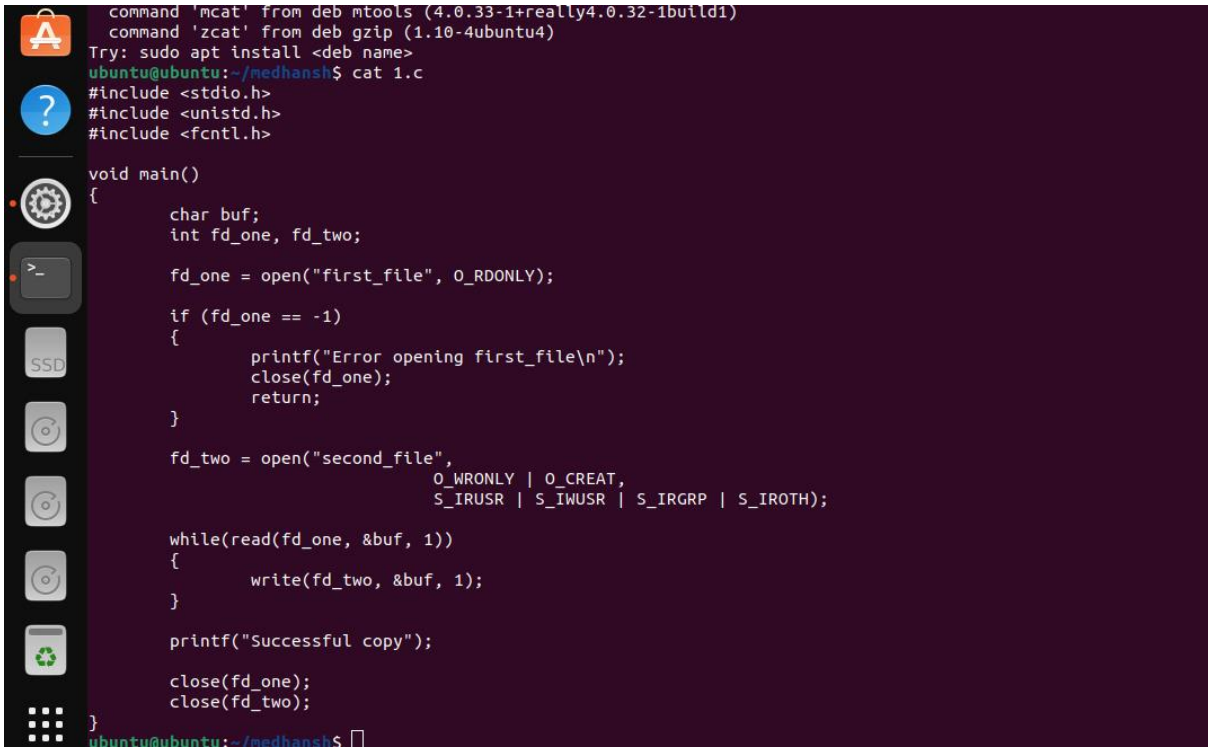
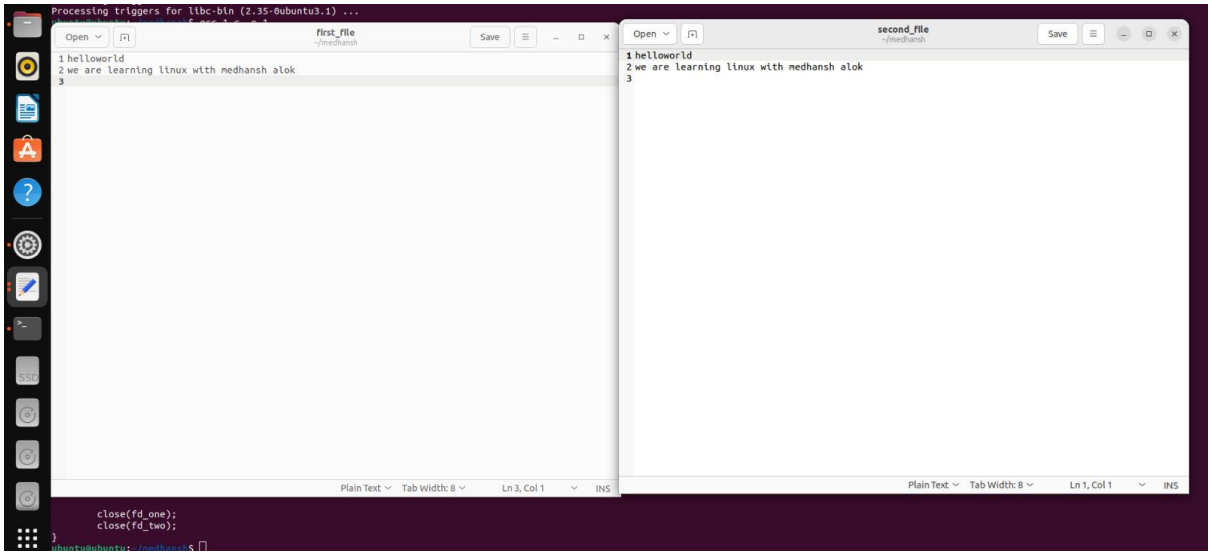
EXPERIMENT-3

AIM-The objective of this laboratory is to introduce the working behind the copy(cp) command. Copy(cp) command uses system calls like open, read, write and Iseek to copy the contents of one file to another and read what users enters and write the same in the file.

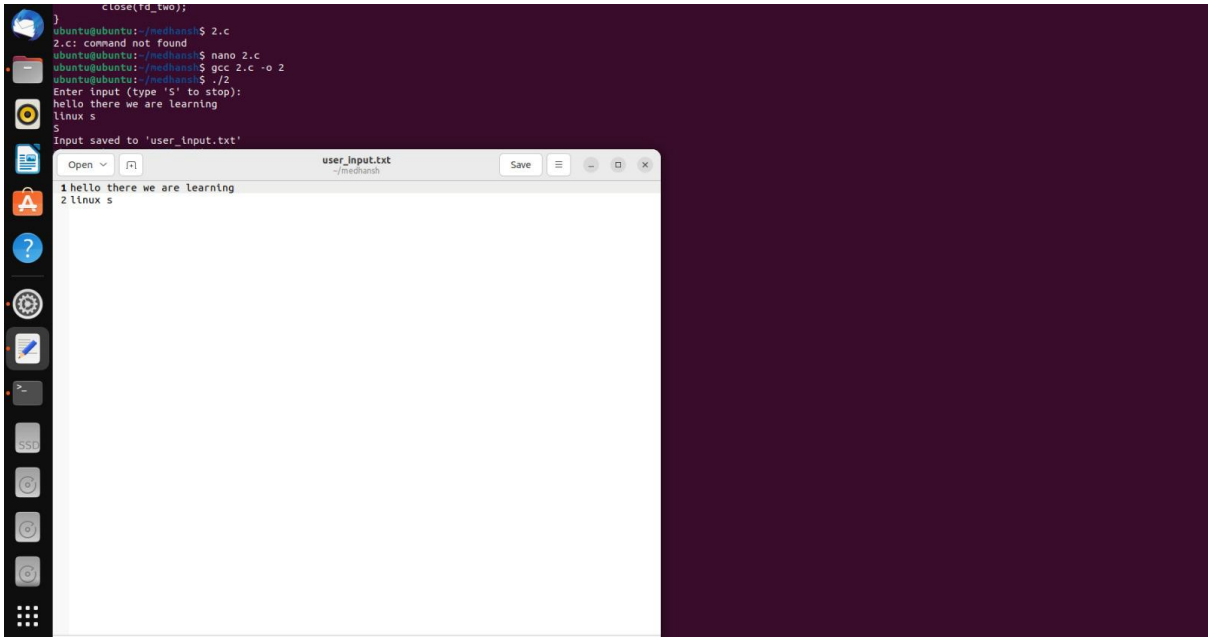
1. Create a program using system calls to copy either the first half or the second half of a file into a new file.



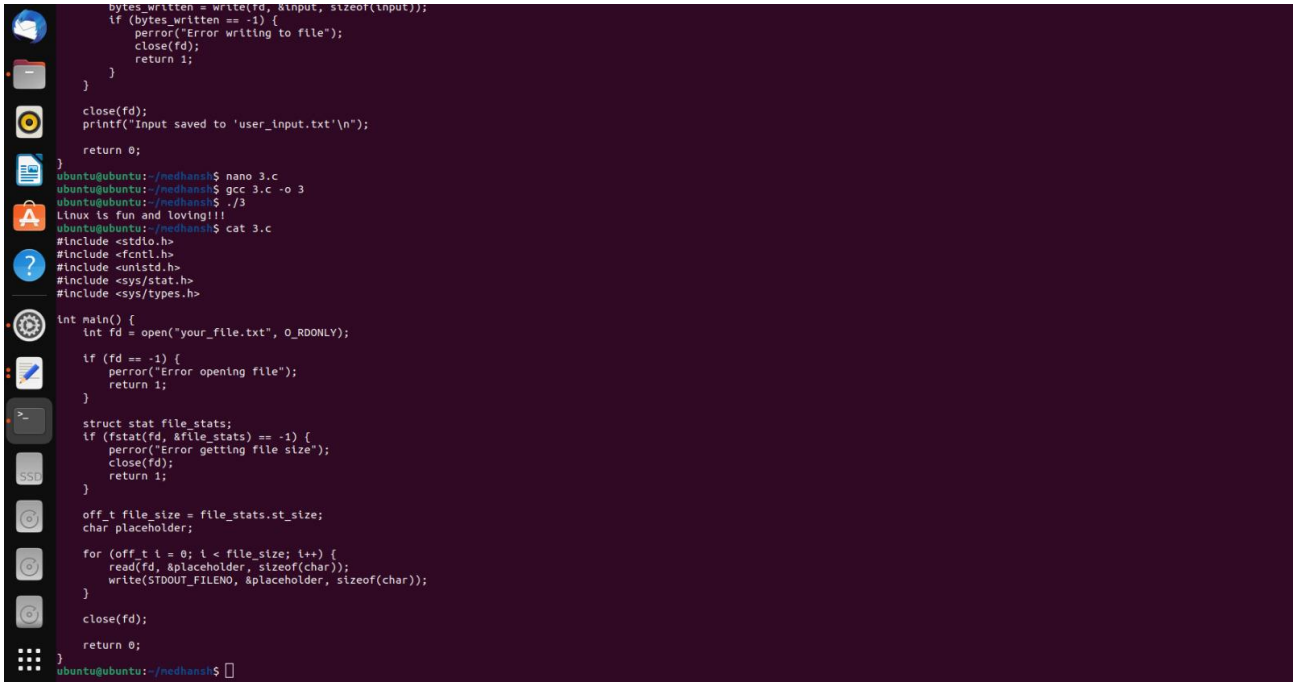
```
  command 'mcat' from deb mtools (4.0.33-1+really4.0.32-1build1)
  command 'zcat' from deb gzip (1.10-4ubuntu4)
Try: sudo apt install <deb name>
ubuntu@ubuntu:~/medhansh$ cat 1.c
#include <stdio.h>
#include <unistd.h>
#include <fcntl.h>

void main()
{
        char buf;
        int fd_one, fd_two;

        fd_one = open("first_file", O_RDONLY);

        if (fd_one == -1)
        {
                printf("Error opening first_file\n");
                close(fd_one);
                return;
        }

        fd_two = open("second_file",
                                O_WRONLY | O_CREAT,
                                S_IRUSR | S_IWUSR | S_IRGRP | S_IROTH);

        while(read(fd_one, &buf, 1))
        {
                write(fd_two, &buf, 1);
        }

        printf("Successful copy");

        close(fd_one);
        close(fd_two);
}
ubuntu@ubuntu:~/medhansh$
```

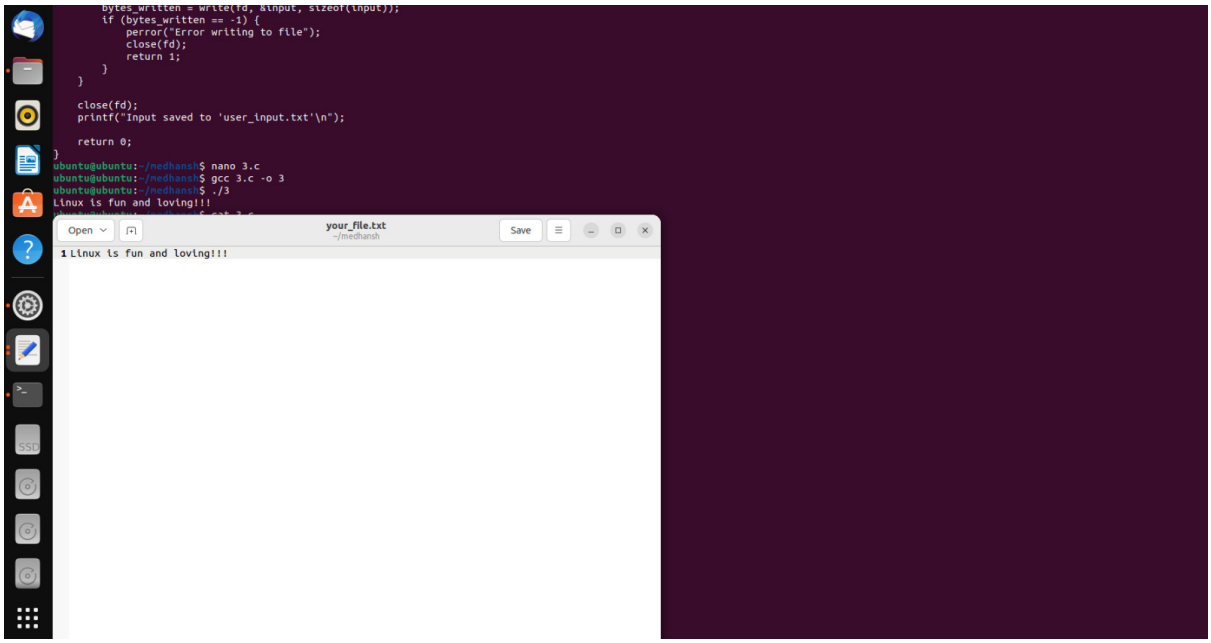


2. Develop a program using system calls to read input from the console until the user inputs 'S', and then save the input into a file.



3. Design a program using system calls to read the contents of a file without using a char array and display the contents directly on the console.





Submitted to

Ashish Kumar Singh

Submitted by

Medhansh Alok

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