

Aim:

Aim: To Execute UNIX system call for Input Output System Calls.

Description:**Algorithm:**

1. Start the program.
2. Open a file for O_RDWR for R/W, O_CREATE for creating a file , O_TRUNC for truncate a file
3. Using getchar(), read the character and stored in the string[] array
4. The string [] array is write into a file close it.
5. Then the first is opened for read only mode and read the characters and displayed It and close the file
6. Stop the program

Source Code:**SystemCall.c**

```
#include<stdio.h>
#include<unistd.h>
#include<string.h>
#include<fcntl.h>
int main()
{
    int fd[2];
    char buff1[25]="just a test\n";
    char buff2[50];
    fd[0]=open("file1",O_RDWR);
    fd[1]=open("file2",O_RDWR);
    write(fd[0],buff1,strlen(buff1));
    printf("Enter the text: ");
    scanf("\n%s",buff1);
    printf("Cat file1 is %s",buff1);
    write(fd[0],buff1,strlen(buff1));
    lseek(fd[0],SEEK_SET,0);
    read(fd[0],buff2,sizeof(buff1));
    write(fd[1],buff2,sizeof(buff2));
    close(fd[0]);
    close(fd[1]);
    printf("\n");
    return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter the text: hai

Cat file1 is hai

Test Case - 2

User Output
Enter the text: Programming
Cat file1 is Programming