# Question No 1

**Exercise 1: Write a C program to illustrate the mv command using system Calls**

1. Open one existed file and one new open file using open( ) system call

2. Read the contents from keyboard using read( )

3. Write these contents into file using write()

4. Repeat 2,3 steps until eof

5. Close 2 file using fclose( ) system call

6. Delete existed file using using unlink( ) system.

## Code:

#include <stdio.h>

#include <unistd.h>

#include <fcntl.h>

int main (){

int fd1,fd2;

char out;

fd1 = open("existing.txt",O\_RDONLY);

fd2 = open("new.txt",O\_WRONLY);

if(fd1 != -1 && fd2 != -1){

while(read(fd1,&out,1)!=0){

write(fd2,&out,1);

printf("%c",out);

}

close(fd1);

close(fd2);

}else{

printf("Error Opening the File");

}

unlink("existing.txt");

return 0;

}

## Output:

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

# Question No 2

**Exercise 2:** Write a program to illustrate “ls” command using system calls

1. Start.

2. Open directory using opendir( ) system call.

3. Read the directory using readdir( ) system call.

4. Print dp.name and dp.inode .

5. Repeat above step until end of directory.

6. End

## Code:

#include <stdio.h>

#include <stdlib.h>

#include <sys/types.h>

#include <dirent.h>

int main(){

DIR \*dir;

struct dirent \*sd;

dir = opendir(".");

if(dir == NULL){

printf("Error");

exit(1);

}

while((sd = readdir(dir)) != NULL ){

printf("%s %lu \n",sd->d\_name,sd->d\_ino);

}

return 0;

}

## Output:

Text

Description automatically generated