**EXPERIMENT – 26**

26. Construct a C program to implement the file management operations.

#include <stdio.h>

#include <stdlib.h>

void createAndWriteFile(const char \*filename) {

FILE \*fp = fopen(filename, "w");

if (!fp) {

perror("File creation failed");

return;

}

fprintf(fp, "This is the initial content of the file.\n");

printf("File '%s' created and written successfully.\n", filename);

fclose(fp);

}

void readFile(const char \*filename) {

FILE \*fp = fopen(filename, "r");

if (!fp) {

perror("File read failed");

return;

}

char ch;

printf("Reading file '%s':\n", filename);

while ((ch = fgetc(fp)) != EOF) {

putchar(ch);

}

fclose(fp);

}

void appendToFile(const char \*filename) {

FILE \*fp = fopen(filename, "a");

if (!fp) {

perror("File append failed");

return;

}

fprintf(fp, "This line is appended to the file.\n");

printf("Content appended to '%s'.\n", filename);

fclose(fp);

}

void renameFile(const char \*oldName, const char \*newName) {

if (rename(oldName, newName) == 0) {

printf("File renamed from '%s' to '%s'.\n", oldName, newName);

} else {

perror("Rename failed");

}

}

void deleteFile(const char \*filename) {

if (remove(filename) == 0) {

printf("File '%s' deleted successfully.\n", filename);

} else {

perror("Delete failed");

}

}

int main() {

const char \*filename = "file\_demo.txt";

const char \*newName = "renamed\_demo.txt";

createAndWriteFile(filename);

readFile(filename);

appendToFile(filename);

readFile(filename);

renameFile(filename, newName);

readFile(newName);

deleteFile(newName);

return 0;

}

SAMPLE OUTPUT:

File 'file\_demo.txt' created and written successfully.

Reading file 'file\_demo.txt':

This is the initial content of the file.

Content appended to 'file\_demo.txt'.

Reading file 'file\_demo.txt':

This is the initial content of the file.

This line is appended to the file.

File renamed from 'file\_demo.txt' to 'renamed\_demo.txt'.

Reading file 'renamed\_demo.txt':

This is the initial content of the file.

This line is appended to the file.

File 'renamed\_demo.txt' deleted successfully.