#### **EXPERIMENT-26**

Construct a C program to implement the file management operations.

#### <u>**AIM:-**</u>

To construct a C program to implement file management operations such as creating, writing, reading, renaming, and deleting a file.

## **ALGORITHM:-**

- 1. Create a File:
  - Use fopen with the "w" mode to create and open a file.
- 2. Write Data to the File:
  - Use fprintf or fputs to write data into the file.
- 3. Read Data from the File:
  - Use fgets or fscanf to read data from the file.
- 4. Rename the File:
  - Use the rename function to rename the file.
- 5. Delete the File:
  - Use the remove function to delete the file

#### **CODE:-**

#include <stdio.h>
#include <stdlib.h>

int main() {

```
FILE *file;
char data[100];
// Create and write to a file
file = fopen("file.txt", "w");
if (file == NULL) {
  perror("Error creating file");
  return 1;
}
fprintf(file, "This is a sample file management program.\n");
fclose(file);
printf("File created and data written successfully.\n");
// Read the file
file = fopen("file.txt", "r");
if (file == NULL) {
  perror("Error opening file for reading");
  return 1;
}
printf("Reading data from the file:\n");
while (fgets(data, sizeof(data), file) != NULL) {
  printf("%s", data);
}
fclose(file);
```

```
// Rename the file
if (rename("file.txt", "new_file.txt") == 0) {
  printf("\nFile renamed successfully to 'new_file.txt'.\n");
} else {
  perror("Error renaming file");
  return 1;
}
// Delete the file
if (remove("new_file.txt") == 0) {
  printf("File deleted successfully.\n");
} else {
  perror("Error deleting file");
  return 1;
}
return 0;
```

### **OUTPUT:-**

}

```
Welcome, Ravi Sal vinay M A

File created and data written successfully.

Reading data from the file:

This is a sample file management program.

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File renamed successfully to 'new file.txt'.

File deleted successfully.

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File created and data written successfully.

File data from the file:

This is a sample file management program.

File deleted successfully to 'new file.txt'.

File deleted successfully.

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```

# **RESULT:-**

The program successfully demonstrated file management operations such as creating, writing, reading, renaming, and deleting a file using C.