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

AIM

To implement file management operations in C.

ALGORITHM

1. **Start**

2. Prompt the user to choose a file management operation:

    o Create a file

    o Write to a file

    o Read from a file

    o Append to a file

    o Delete a file

3. Perform the selected operation:

    o For creating/writing/appending, open the file with the respective mode and perform the operation.

    o For reading, open the file in read mode and display its content.

    o For deleting, use the remove() function.

4. Display appropriate success or failure messages.

5. Repeat the process until the user exits.

6. **Stop**

PROCEDURE

1. Include necessary libraries.

2. Define functions for each operation:

    o Create or open a file.

    o Write data to the file.

    o Read data from the file.

    o Append data to the file.

o   Delete a file.

3. Use a menu-driven approach to allow users to choose an operation.

4. Call the appropriate function based on the user's choice.

CODE:

```c
#include <stdio.h>

#include <stdlib.h>


void createFile() {

    char filename[100];

    printf("Enter the filename to create: ");

    scanf("%s", filename);

    FILE *file = fopen(filename, "w");

    if (file) {

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

        fclose(file);

    } else {

        printf("Error creating file.\n");

    }

}


void writeFile() {

    char filename[100], content[1000];

    printf("Enter the filename to write to: ");

    scanf("%s", filename);

    FILE *file = fopen(filename, "w");

    if (file) {

        printf("Enter content to write: ");

        getchar();
```

```c
        fgets(content, sizeof(content), stdin);

        fprintf(file, "%s", content);

        printf("Content written successfully.\n");

        fclose(file);

    } else {

        printf("Error opening file.\n");

    }

}


void readFile() {

    char filename[100], ch;

    printf("Enter the filename to read: ");

    scanf("%s", filename);

    FILE *file = fopen(filename, "r");

    if (file) {

        printf("File content:\n");

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

            putchar(ch);

        }

        fclose(file);

    } else {

        printf("Error opening file.\n");

    }

}


void appendFile() {

    char filename[100], content[1000];

    printf("Enter the filename to append to: ");
```

```c
    scanf("%s", filename);

    FILE *file = fopen(filename, "a");

    if (file) {

        printf("Enter content to append: ");

        getchar();

        fgets(content, sizeof(content), stdin);

        fprintf(file, "%s", content);

        printf("Content appended successfully.\n");

        fclose(file);

    } else {

        printf("Error opening file.\n");

    }

}


void deleteFile() {

    char filename[100];

    printf("Enter the filename to delete: ");

    scanf("%s", filename);

    if (remove(filename) == 0) {

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

    } else {

        printf("Error deleting file.\n");

    }

}


int main() {

    int choice;

    while (1) {
```

```c
    printf("\nFile Management Operations:\n");

    printf("1. Create a file\n");

    printf("2. Write to a file\n");

    printf("3. Read from a file\n");

    printf("4. Append to a file\n");

    printf("5. Delete a file\n");

    printf("6. Exit\n");

    printf("Enter your choice: ");

    scanf("%d", &choice);


    switch (choice) {

        case 1: createFile(); break;

        case 2: writeFile(); break;

        case 3: readFile(); break;

        case 4: appendFile(); break;

        case 5: deleteFile(); break;

        case 6: exit(0);

        default: printf("Invalid choice.\n");

    }

  }

  return 0;

}
```

OUTPUT:

▶ Run   ⊙ Debug   ■ Stop   ⮞ Share   💾 Sa

```
File Management Operations:
1. Create a file
2. Write to a file
3. Read from a file
4. Append to a file
5. Delete a file
6. Exit
Enter your choice: 1
Enter the filename to create: TEJA
File 'TEJA' created successfully.

File Management Operations:
1. Create a file
2. Write to a file
3. Read from a file
4. Append to a file
5. Delete a file
6. Exit
Enter your choice: 2
Enter the filename to write to: TEJA
Enter content to write: HELLO
Content written successfully.

File Management Operations:
1. Create a file
2. Write to a file
3. Read from a file
4. Append to a file
5. Delete a file
6. Exit
Enter your choice: 3
Enter the filename to read: TEJA
File content:
HELLO

File Management Operations:
1. Create a file
2. Write to a file
3. Read from a file
4. Append to a file
5. Delete a file
6. Exit
Enter your choice: 6


...Program finished with exit code 0
Press ENTER to exit console.
```