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## EXERICSE-26

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

**Aim:**

To construct a C program to implement basic file management operations such as create, write, read, append, and delete.

**Algorithm:**

**1. Create and Open File:**

- Use fopen to create or open a file.

**2. Write Data:**

- Use fputs or fprintf to write data to the file.

**3. Read Data:**

- Use fgets or fread to read data from the file.

**4. Append Data:**

- Open the file in append mode and write additional data.

**5. Delete File:**

- Use remove to delete the file.

**Procedure:**

1. Create a new file or open an existing file using fopen.
2. Write data into the file using fputs or fprintf.
3. Read and display the contents of the file using fgets or fread.
4. Append additional data to the file in append mode.
5. Delete the file using remove.

**Code:**

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

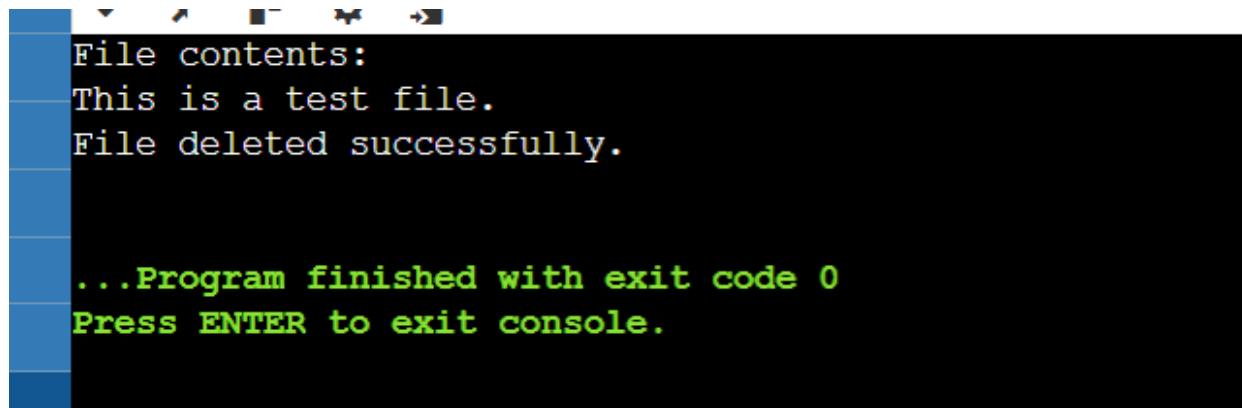
```
int main() {  
    FILE *file;  
    char buffer[100];  
    file = fopen("example.txt", "w");  
    if (file == NULL) {  
        perror("Error creating file");  
        return 1;  
    }  
    fputs("This is a test file.\n", file);  
    fclose(file);  
    file = fopen("example.txt", "r");  
    if (file == NULL) {  
        perror("Error reading file");  
        return 1;  
    }  
    printf("File contents:\n");  
    while (fgets(buffer, sizeof(buffer), file)) {  
        printf("%s", buffer);  
    }  
    fclose(file);  
    file = fopen("example.txt", "a");  
    if (file == NULL) {  
        perror("Error appending to file");  
        return 1;  
    }  
    fputs("Appending new data.\n", file);  
    fclose(file);  
    if (remove("example.txt") == 0) {  
        printf("File deleted successfully.\n");  
    } else {
```

```
        perror("Error deleting file");
    }
    return 0;
}
```

### Result:

The program successfully performs file management operations: creating, writing, reading, appending, and deleting a file.

### Output:

A screenshot of a terminal window with a black background and a blue vertical bar on the left. The terminal shows the output of a program. The first three lines are in white text: "File contents:", "This is a test file.", and "File deleted successfully.". The next two lines are in green text: "...Program finished with exit code 0" and "Press ENTER to exit console.". At the top of the terminal window, there is a small toolbar with several icons: a dropdown arrow, a magnifying glass, a square, a cross, and a right-pointing arrow.

```
File contents:
This is a test file.
File deleted successfully.

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