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

**Aim**

To develop a C program to perform basic file management operations: create, read, write, and append data to a file.

**Algorithm**

1. Start the program.
2. Display a menu for file operations (Create/Write, Read, Append, Exit).
3. Based on the user’s choice:
   * **Create/Write**: Open a file in write mode, input data, and save it.
   * **Read**: Open a file in read mode and display its contents.
   * **Append**: Open a file in append mode and add new data.
4. Close the file after each operation.
5. Repeat until the user chooses to exit.
6. End the program.

**Procedure**

1. Use fopen() to create/open a file.
2. Perform operations using fprintf() for writing, fscanf() or fgets() for reading, and fprintf() for appending.
3. Handle user inputs and perform error checking (e.g., file not found).
4. Close the file using fclose().

**Code:**

#include <stdio.h>

#include <stdlib.h>

void createFile() {

FILE \*file = fopen("file.txt", "w");

if (file == NULL) {

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

return;

}

printf("File created successfully.\n");

fclose(file);

}

void writeFile() {

FILE \*file = fopen("file.txt", "w");

if (file == NULL) {

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

return;

}

char data[100];

printf("Enter content to write into the file: ");

getchar();

fgets(data, 100, stdin);

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

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

fclose(file);

}

void readFile() {

FILE \*file = fopen("file.txt", "r");

if (file == NULL) {

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

return;

}

char ch;

printf("File content:\n");

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

putchar(ch);

}

fclose(file);

}

void appendFile() {

FILE \*file = fopen("file.txt", "a");

if (file == NULL) {

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

return;

}

char data[100];

printf("Enter content to append to the file: ");

getchar();

fgets(data, 100, stdin);

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

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

fclose(file);

}

int main() {

int choice;

do {

printf("\nFile Management System\n");

printf("1. Create File\n");

printf("2. Write to File\n");

printf("3. Read File\n");

printf("4. Append to File\n");

printf("5. 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: printf("Exiting...\n"); break;

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

}

} while (choice != 5);

return 0;

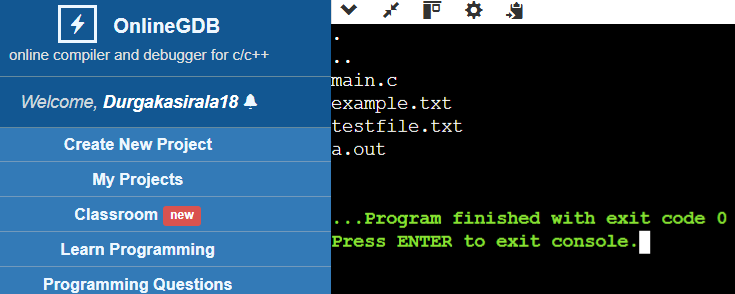
}

**Result**

The program successfully implements file management operations:

1. **Create File**: Creates an empty file named file.txt.
2. **Write File**: Writes user input to the file.
3. **Read File**: Reads and displays the file's contents.
4. **Append File**: Appends additional content to the file.

**Output:**

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