Simple Calculator Project

README.md

Simple Basic Calculator in C

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This is a simple **Basic Calculator** program written in the C language.
It performs basic arithmetic operations like addition, subtraction, multiplication, and division.

Features
- User-friendly menu-driven interface
- Handles division by zero safely
- Loops until the user chooses to exit

How to Run
1. Save the file as `simple_calculator_asif.c`
2. Compile the code using any C compiler:
   ```bash
   gcc simple_calculator_asif.c -o calculator
   ```
3. Run the program:
   ```bash
   ./calculator
   ```

Example Output
```
===== Welcome To My Basic Calculator =====
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice (1-5): 1
Enter First Number: 5
Enter Second Number: 3
Addition = 8
*=*=*= Thanks For Using My Calculator Bro! =*=*=
```

License
This project is open-source and free to use.

Feel free to modify and improve it!

simple_calculator_asif.c

```
//Author - Asif Ansari
//This is my Simple Basic Calculator that performs some basic tasks
#include <stdio.h>

int main() {
    int choice;
    int num1, num2, result;

    do {
        printf("\n===== Welcome To My Basic Calculator =====\n");
        printf("1. Addition\n");
        printf("2. Subtraction\n");
        printf("3. Multiplication\n");
        printf("4. Division\n");
        printf("5. Exit\n");
        printf("Enter your choice (1-5): ");
        scanf("%d", &choice);

        if (choice == 5) {
            printf("\nThank you for using my calculator! Goodbye!\n");
            break;
        }

        if (choice >= 1 && choice <= 4) {
            printf("Enter First Number: ");
            scanf("%d", &num1);
            printf("Enter Second Number: ");
            scanf("%d", &num2);
        }

        switch (choice) {
            case 1:
                result = num1 + num2;
                printf("Addition = %d\n", result);
                break;

            case 2:
                result = num1 - num2;
                printf("Subtraction = %d\n", result);
                break;

            case 3:
                result = num1 * num2;
                printf("Multiplication = %d\n", result);
                break;

            case 4:
                if (num2 != 0)
                    printf("Division = %.2f\n", (float)num1 / num2);
                else
                    printf("Error! Division by zero is not allowed.\n");
                break;
```

```
            default:
                printf("Invalid Choice! Please try again.\n");
        }

        printf("\n*=*=*= Thanks For Using My Calculator Bro! =*=*=\n");

    } while (1);

    return 0;
}
```