

<https://github.com/bikrammistry02/Assignment-Week-1a-b.git>

```
// average_array.c
#include <stdio.h>

int main() {
    int n;
    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];
    float sum = 0;

    printf("Enter %d integers:\n", n);
    for(int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
        sum += arr[i];
    }

    printf("Average = %.2f\n", sum / n);
    return 0;
}
```

```
// reverse_string.c
#include <stdio.h>
#include <string.h>

int main() {
    char str[100];
    printf("Enter a string: ");
    scanf("%s", str);

    int len = strlen(str);
    printf("Reversed string: ");
    for(int i = len - 1; i >= 0; i--) {
        printf("%c", str[i]);
    }
    printf("\n");
    return 0;
}
```

```
}
```

🧮 Simple Calculator in C

This is a simple command-line calculator program written in C. It allows users to perform basic arithmetic operations: ****Addition****, ****Subtraction****, ****Multiplication****, and ****Division****.

📋 Features

- * Menu-driven interface
- * Supports floating-point numbers
- * Basic error handling for invalid menu options

🛠️ How It Works

- 1 Displays a menu with 4 options:
 - .
 - * 1: Addition
 - * 2: Subtraction
 - * 3: Multiplication
 - * 4: Division
- 2 User selects an operation by entering a number (1-4).
 - .
- 3 Prompts the user to input two numbers.
 - .
- 4 Performs the selected operation and prints the result

🖨️ Sample Output

...

Enter a number from the list below

1. Addition
2. Subtraction
3. Multiplication
4. Division

Enter number: 1

You entered Addition

Enter first number: 10

Enter second number: 20

10.00 + 20.00 = 30.00

```

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## ## How to Compile and Run

Make sure you have a C compiler (like `gcc`) installed.

```bash

`gcc calculator.c -o calculator`

`./calculator`

```

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## ## File Structure

```

`calculator.c` `// Main source code`

`README.md` `// This documentation file`

```

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## ## Future Improvements (Optional)

- \* Input validation for non-numeric inputs
- \* Division by zero handling
- \* Loop for continuous use until the user exits
- \* Enhanced UI with color using ANSI escape codes

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## ## License

This project is open-source and free to use for educational purposes.

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