

**MINI PROJECT**  
**on**  
**“SIMPLE CALCULATOR APPLICATION”**

By

THANU K V  
SF ID: 105174

## TABLE OF CONTENTS

CHAPTER NO	CONTENTS	PAGE No
1	Problem Statement	2
2	Description	2
3	Requirements	3
4	Test Plan	4
5	Test Cases	5
6	References	6

## CHAPTER 1

**PROBLEM STATEMENT:** Simple calculator application using C program

## CHAPTER 2

**DESCRIPTION:** This program will perform the below calculator operations.

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Modulus
6. Power
7. Factorial

In c programming code, the user is prompted to choose the operations(i.e. addition, subtraction etc) to be performed and then prompted to key in the values which are used to perform the operations. Then, the result will be shown as output to the user.

## **CHAPTER 3**

### **REQUIREMENTS:**

#### **Software Requirements:**

- Code::blocks version 20.03
- Windows Operating System.

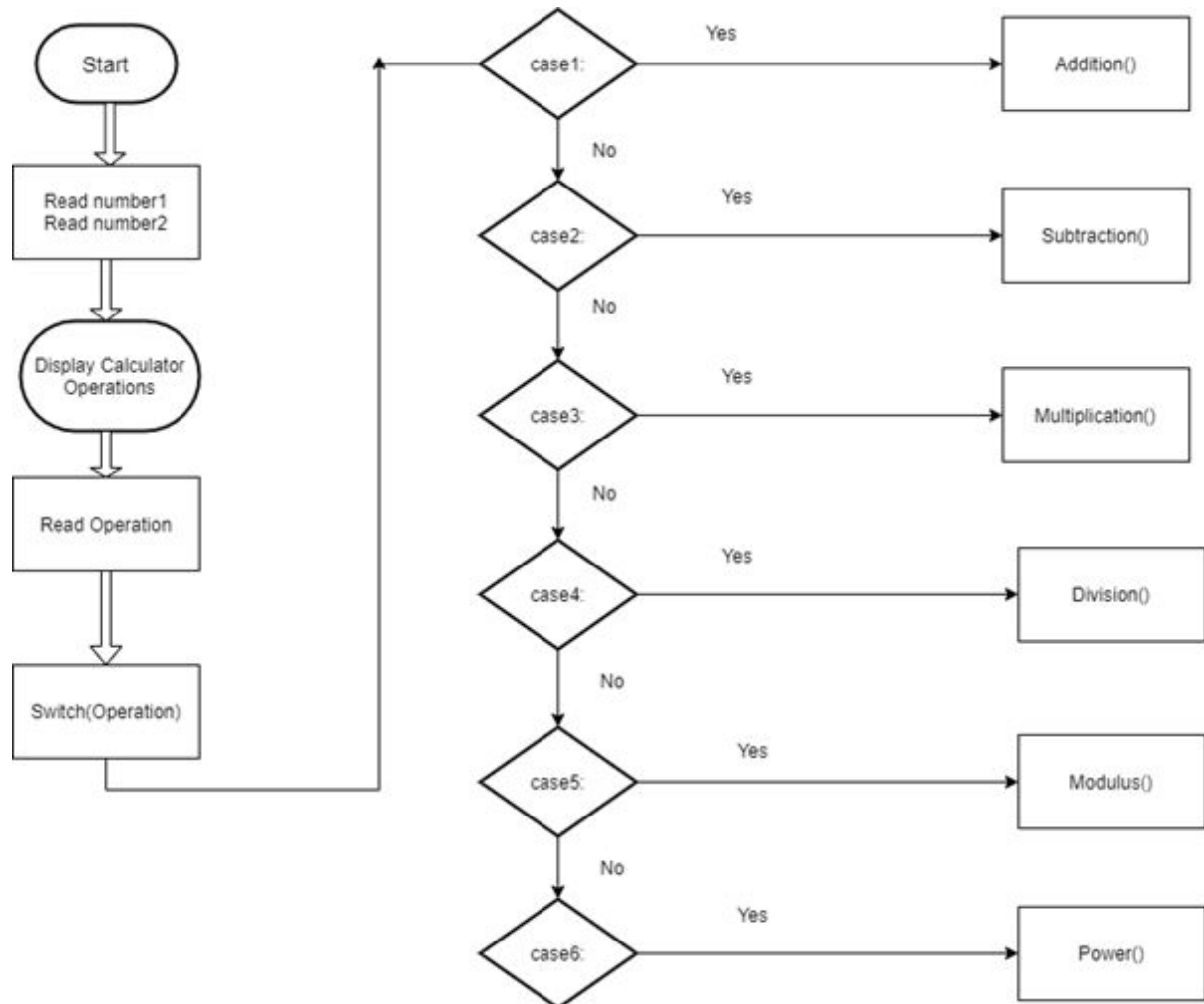
#### **Data Requirements:**

- To display numbers and the result
- Numbers from 0-9
- Operations such as addition, subtraction, multiplication, division, modulus buttons (+, -, \*, /, %)
- Get correct output
- Store result

# CHAPTER 4

## TEST PLAN

### FLOW CHART



Flowchart for simple calculator

## CHAPTER 5

### TEST CASES

ID	Description	Pre - condi tion	Expected input	Expected output	Actual output
1	To add two integers and display the result.	Calc ulator  is switc hed on	Two numbers and addition operator	Both numbers should be added and give correct result	It displayed correct answer
2	To subtract two integers and display the result.	Calc ulator  is switc hed on	Two numbers and subtraction operator	Number2 should be subtracted from number1 and give correct result	It displayed correct answer

3	To multiply two integers and display the result	Calculator switched on	Two numbers and multiplication operator	Both numbers should be multiplied and give correct result	It displayed correct answer
4	To divide two numbers and display the result	Calculator switched on	Two numbers and division operator	Divide number1 by number2 and get correct result	It displayed correct answer
5	To check the modulus of two numbers and display the result	Calculator switched on	Two numbers and modulus operator	Get modulus of number1 and number2 and display correct result	It displayed correct answer

6	To check the power of the digit and display the result	Calculator switched on	is	A digit and power	Get the power of given input and display the correct result	It displayed correct answer
7	To check the factorial of a digit and get correct result	Calculator switched on	is	A digit	To get the factorial of given digit and display the correct result	It displayed correct answer
8	To check division by zero	Calculator switched on	is	A digit and zero	When a digit is divided by zero the result should be invalid	The result displayed is zero



## **CHAPTER 6**

### **REFERENCES**

**[1].<https://fresh2refresh.com/c-programming/c-programs/c-code-for-calculator-application/>**

**[2].<https://www.codewithc.com/c-mini-project-a-simple-calculator-application/>**

**[3].<https://www.programming-techniques.com/2013/06/c-mini-project-ideas-with-sample.html>**