MINI PROJECT
on
"SIMPLE CALCULATOR APPLICATION"

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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
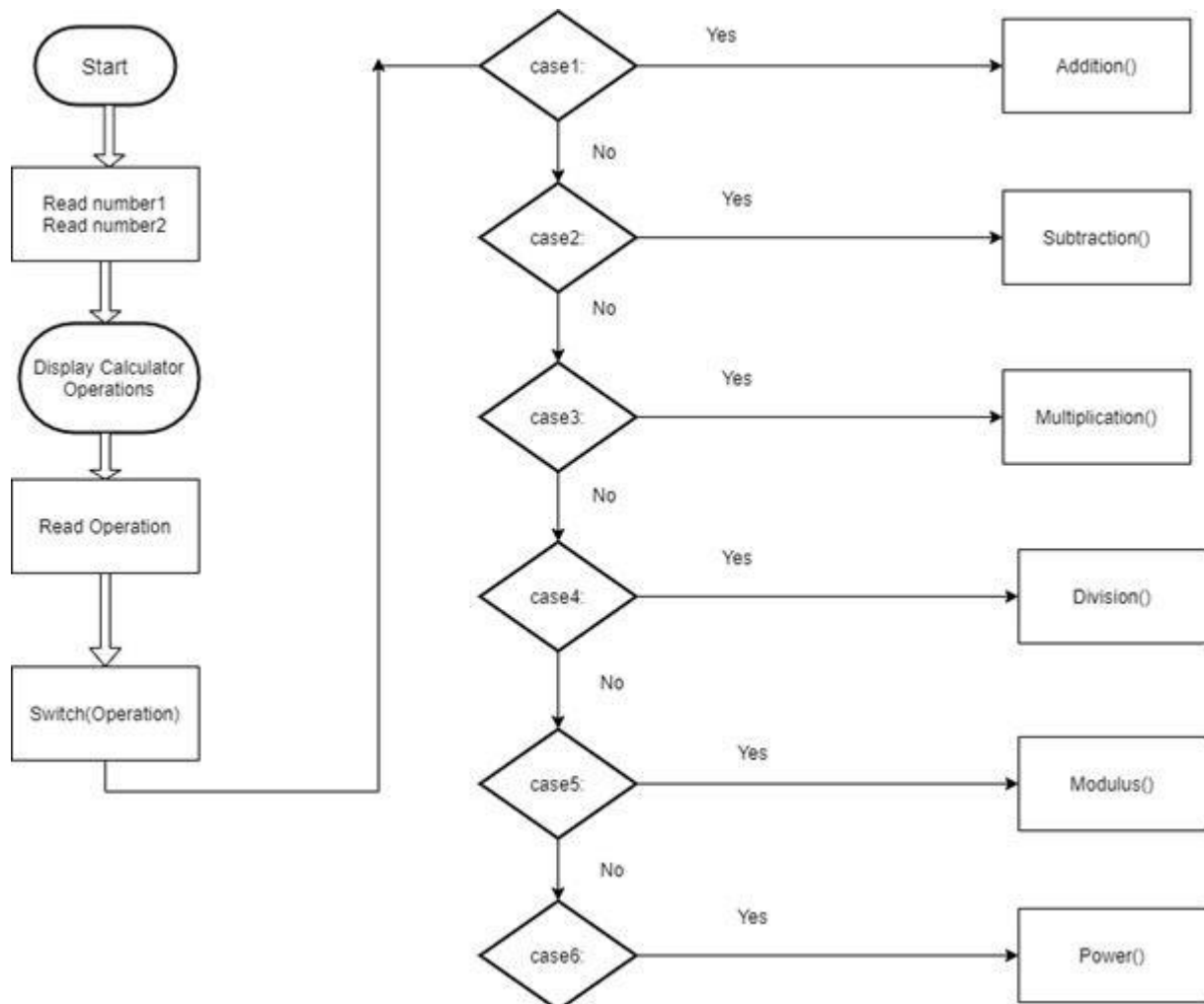- Windows Operating System.

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 - condition	Expected input	Expected output	Actual output
1	To add two integers and display the result.	Calculator is switched 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.	Calculator is switched 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 is	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 is	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 is	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

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[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