# REQUIREMENTS

## Introduction:-

Simple calculator is a project to allow users to calculate basic four operations in mathematics ,they are addition, subtraction, multiplication, division but in this Project which I'm Implementing ,also included three additional operations such as Factorial, Power , modulus .However, the input has to be in the form "number1 operator1 number2 "(i.e 2+4).

The input includes the command such as we can give numbers based on the operation for example for addition we give 1 as a command and that particular operation works. Moreover, this calculator is smart enough to operate multiplication/division before addition/subtraction/factorial/power/modulus, in another word it is implemented with the order of precedence logic.

## SWOT Analysis

**STRENGTHS**

The ultimate strength Calculators is its innovative, user-friendly and long lasting etc..

**WEAKNESSES**

Do not include all the operations rather have only addition, subtraction multiplication, division , modulus ,power and factorial.

**OPPORTUNITIES**

The tech-based market has a huge opportunities in capturing the youth market. And this calculator comparatively already one step ahead than other

**THREATS**

The slower growth in technological innovation will also bring a significant threat in the upcoming dynamic world.

**4W's and 1'H**

**Who:**

Students who want to perform simple mathematical operation.

**What:**

to calculate basic four operations in mathematics ,they are addition, subtraction, multiplication, division, Factorial, Power , modulus .

**When:**

Students facing a difficulty in solving a mathematical related problem, can use this program to confirm their outputs, can be used in our daily life to solve simple problems.

**Where:**

Students, employees and retailers all over the world.

**How:**

This program can be executed in a system which has Windows operating system.

# HIGH LEVEL REQUIREMENTS:-

| ID | Description | Status |
|---|---|---|
| HLR01 | User should able to view operation list | Implemented |
| HLR02 | User should able to select the operation | Implemented |
| HLR03 | The system should able perform the given operation | Implemented |
| HLR04 | The system should provide correct result | Implemented |

# LOW LEVEL REQUIREMENTS:-

| ID | Description | Status |
|---|---|---|
| | | |

| | | |
|---|---|---|
| LR01 | User Should Enter Integer Values | Implemented |
| LR02 | Can Be Used in Scientific Calculations | Future |
| LR03 | User Input Could be More than Two | Future |

**REQUIREMENTS**

**Hardware Requirements**

- Ram 512MB or higher.
- Minimum 10MB hard disk space.
- Intel/Pentium powered system.
- Processor speed 1.7 GHZ

**Software Requirements: -**

- Windows 8 or higher versions.
- Visual Studio/Code: Blocks software/Dev-C++.