

1) TEST PLAN

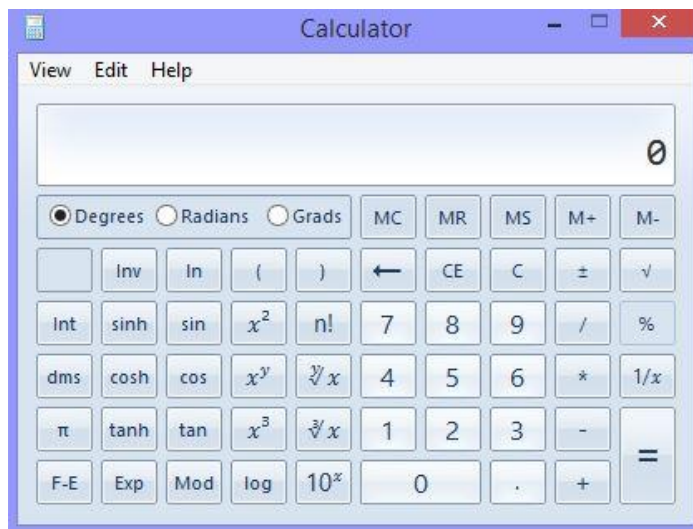
Scope of a Scientific Calculator:

By definition, a scientific calculator is a calculator designed to help you calculate science, engineering, and mathematics problems. It has way more buttons than your standard calculator that just lets you do your four basic arithmetic operations of addition, subtraction, multiplication, and division.

Here is your standard calculator:



Now, look at how different a scientific calculator is:



OBJECTIVES:

All of these extra buttons allow you to work with various kinds of numbers and problems such as these:

- Trigonometry problems
- Scientific numbers that have a multiplication by 10 to a certain power
- π problems
- Logarithm problems with base 10 and the natural base
- Probability problems that use the factorial function

Scientific calculators are used widely in situations that require quick access to certain mathematical functions, especially those that were once looked up in mathematical tables, such as trigonometric functions or logarithms.

RESOURCES:

- i) Visual Studio Code
- ii) Github
- iii) Doxygen
- iv) C Compiler
- v) Scientific Calculator for reference.

2) OUTPUT:

Operation to be performed	Input number 1	Input number 2	OUTPUT
Addition (+)	54	5	59
Square Root (q)	144	-	12
Divsion	33	3	11