
Statement.md – Scientific Calculator

Problem Statement

Performing mathematical calculations manually can be time-consuming and prone to errors, especially when dealing with advanced mathematical functions like trigonometry, logarithms, exponentials, and factorial operations. Traditional basic calculators often lack scientific features, while many scientific calculators are costly or not easily accessible. Therefore, there is a need for a simple, reliable, and user-friendly scientific calculator application that can handle both basic and complex calculations efficiently.

Scope of the Project

The scope of this project includes developing a scientific calculator capable of performing a wide range of mathematical operations. It covers basic arithmetic, scientific functions, and error handling. The project focuses on delivering an intuitive interface, accurate results, and quick performance. Future enhancements may include history tracking, theme customization, and additional mathematical functions.

Target Users

Students studying mathematics, engineering, or science

Teachers and academic professionals

Developers who need a quick calculation tool

Anyone requiring a handy scientific calculator for day-to-day use

High-Level Features

Basic arithmetic operations (add, subtract, multiply, divide)

Advanced scientific functions (trigonometry, logarithms, exponentials, factorial, power, square root)

User-friendly interface for easy input and operations

Error handling for invalid expressions

Fast and accurate computation

Clear and reset functionality for smooth workflow
