

Course Name: Project Work
Course Code : CSE-150
Project Title : Scientific Calculator

Project Overview:

Develop a scientific calculator in C++ to perform various mathematical operations. The calculator will include standard arithmetic functions, as well as scientific functions such as square root, exponentiation, trigonometric, and logarithmic functions. The program will have a user-friendly interface for input and display

Basic Arithmetic Operations:

- Addition, Subtraction
- Multiplication, Division

Scientific Functions:

- Square Root
- Exponentiation
- Trigonometric Functions (sin, cos, tan)
- Inverse Trigonometric Functions (asin, acos, atan)
- Logarithmic Functions (log, ln)
- Additional Functions (Matrix, Vector)

Error Handling:

- Handle division by zero.
- Display an error message for invalid input or operations.

Implementation Details:

Programming Language: C++

User Input:

- Utilise the `cin` stream for input.
- Implement a menu system for selecting operations.

Mathematical Functions:

- Utilise standard C++ maths libraries for functions like `sqrt`, `pow`, `sin`, `cos`, `tan`, `log`, etc.

User Interface:

- Display a menu with available operations.
- Prompt the user to choose an operation.
- Accept input for numbers and perform the selected operation.
- Display the result.

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