**Swing Calculator**

A user-friendly Swing-based calculator with additional functionalities such as history tracking, dark mode, memory functions, and input validation.

**Features:**

* **Basic Operations**: Addition, subtraction, multiplication, and division.
* **Advanced Functions**: Square root, memory functions (M+, M-, MR, MC).
* **History Tracking**: Stores past calculations for reference.
* **Dark Mode**: Toggle between light and dark themes.
* **Improved Input Handling**: Ensures valid expressions and prevents multiple decimal points.

**How to Use**

1. **Enter a number** using the buttons or keyboard.
2. **Select an operation**
3. **Press ''** to evaluate the expression.
4. **Use memory functions**:
   * M+ to store value.
   * M- to subtract from memory.
   * MR to recall stored value.
   * MC to clear memory.
5. **Toggle Dark Mode** for a different theme.
6. **View History** to check previous calculations.

**Installation**

1. Ensure you have **Java 8+** installed.
2. Compile and run the program:

javac ModernSwingCalculator.java

java ModernSwingCalculator

**Requirements**

* Java Development Kit (JDK) 8 or later.
* Swing library (included in JDK).