

Industrial Training Project On
Android App Development



Brainware University

Scientific Calculator

(Under Webskitters Academy)

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Problem Statement:

- Build a Scientific Calculator using Android Studio.
- Including:
 - Trigonometric Functions
 - Priority wise evaluation of operands
 - Addition, subtraction, multiplication, division



Requirements to develop project:

- **Android Studio** - It is the best and most appropriate IDE for Android app development today.
- **Object Oriented Programming Concepts**
- **Java Programming or Kotlin**
- **eXtensible Markup Language (XML)**



Layout (Portrait mode) :



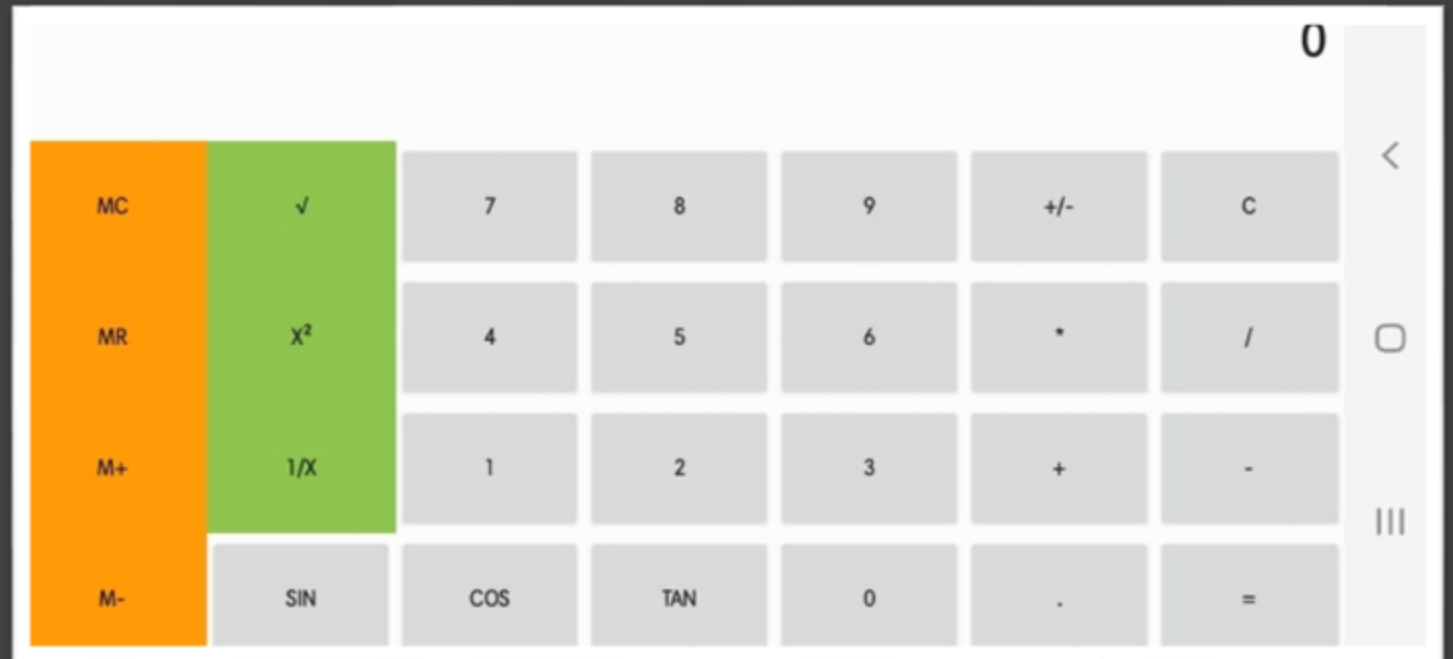
Display

Buttons

Features included:

- Square root
- Trigonometric Functions (sin,cos,tan)
- Arithmetic expressions

Layout (landscape mode):



Description of the project:

- **activity_main.xml:** This file describes the whole user interface.
- **MainActivity.java:** This file manages the working of this system. Main java file is important as it is the only file that enables the execution of the application.
- **Calculatorbrain.java:** This file contains the logic or the main backend code for all the functions that has been inputted in the calculator.

References:

- **Websites -**

- StackOverflow.com
- Innovativenetsolutions.com
- iconfinder.com

- **Special Acknowledgement -**

To our teacher, Debjit Banerjee for guiding us throughout the development of the project.

Thank You