Flutter Report

Name: Kaushal Lodd
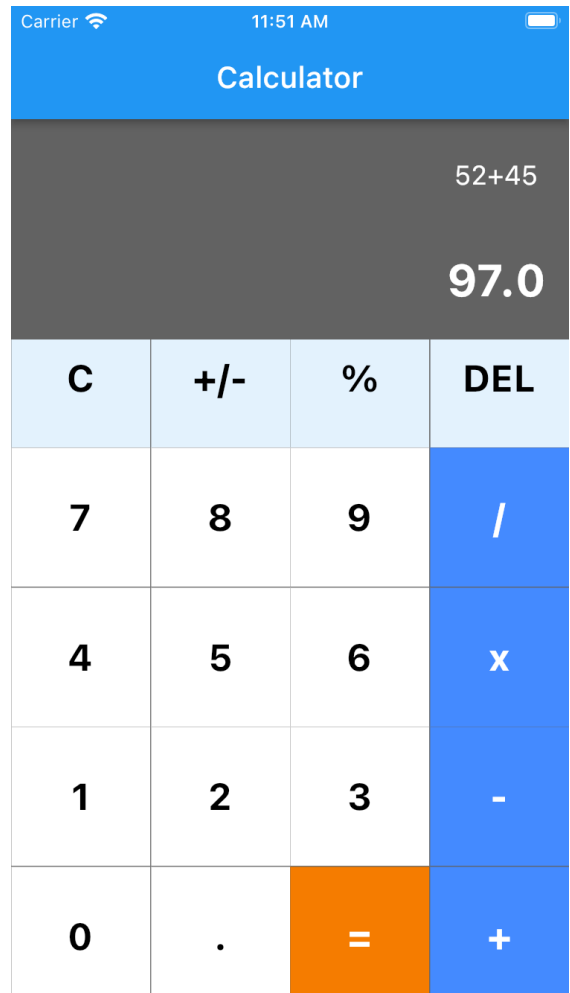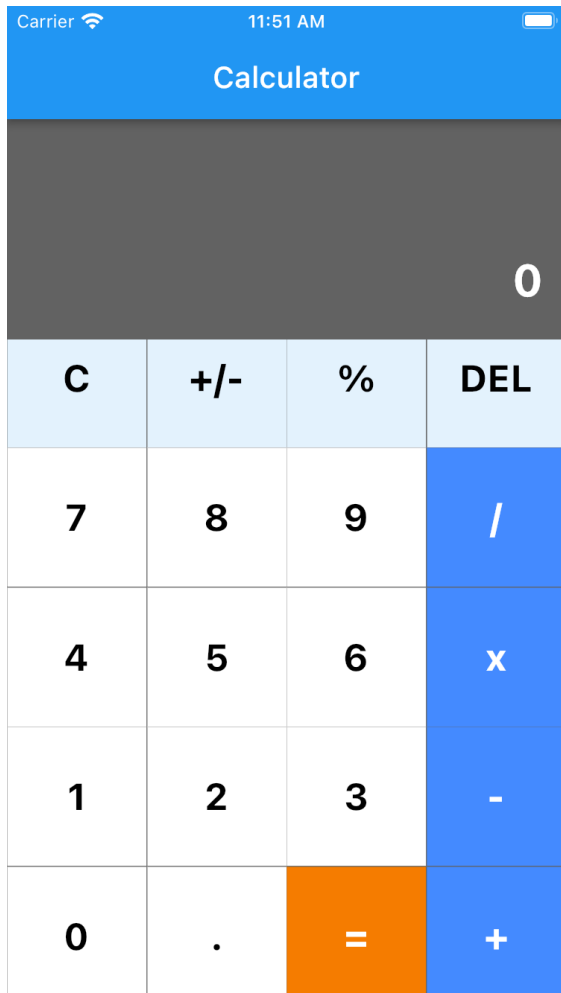
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What is Flutter?

- Flutter is an open source framework by Google for building beautiful, natively compiled, multi-platform applications from a single codebase.
- It is a software development kit (SDK) with prewritten code, consisting of ready-to-use and customizable widgets, as well as libraries, tools, and documentation that together serve to build cross-platform apps.
- Flutter's language for cross-platform development is **Dart**, which was also developed by Google.

Why Flutter?

- Flutter is a free and open source framework.
- Dart is easy to learn and is very similar to C# and Java.
- Since it is natively-compiled, it provides high performance.
- **Hot Reload:** It reflects changes made on the code immediately to the simulation.
- **Rich Widgets:** The core idea of flutter is widgets. You can use elegant and expressive UI by combining different widgets, etc. It also provides built-in material design (for Android apps), rich motion APIs and Cupertino Widgets (for iOS apps) are useful to make elegant and user-friendly apps.
- **Single Code Base:** Only one codebase needs to be maintained for both Android and iOS platforms. It needs a single code base for developing cross-platform apps with native-like experience.
- **Google Firebase Support:** The Flutter framework enables developers to make the most of Google's firebase support as a backend. Developers can use this support for developing scalable apps.

Execution screenshots

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