**Documentation of iOS app :**

1. **Installation**
2. - **Prerequisites**

* ***ANDROID SDK***
* ***JDK***
* ***TestNG***
* ***Eclipse***
* ***Selenium Server JAR***
* ***Webdriver Language Binding Library***
* ***APPIUM for ios***
* ***App***

  - To install the Automation Framework, follow these steps:  
1. Download the Automation Framework package from the official website.  
2. Extract the package to a desired location on your machine.  
3. Configure the necessary environment variables.  
4. Open your preferred IDE and import the Automation Framework project.  
5. Resolve any project dependencies using the package manager.  
6. Verify the installation by running a sample test script.  
  
2. Getting Started

: **Project Setup**

To set up a new project with the Automation Framework, perform the following steps:  
1. Create a new project in your IDE.  
2. Configure the project structure according to the recommended directory hierarchy.  
3. Add the Automation Framework library and dependencies to your project.  
4. Create a base test class that initializes the necessary components.  
: Configuration

1. Locate the configuration file in the project directory.  
2. Customize the configuration parameters to fit your project requirements.  
3. Modify environment-specific settings such as URLs, credentials, and timeouts.  
4. Review and update any additional configuration options as needed.

3. **Test Design**  
  - Test Case Structure

1. Identify the test scenario and define the expected outcome.  
   2. Determine the necessary test data and preconditions.  
   3. Break down the test scenario into individual test steps.  
   4. Implement assertions to verify expected results.

: **Test Execution Flow**  
Define the execution flow of your test cases to ensure proper sequencing and dependencies. Consider the following approaches:  
1. Utilize test annotations or keywords to define

1. Proper annotations for before Class and after class

4. **Test Automation**  
  - Test Scripting  
  - Element Locators  
  - Test Data Integration  
  - Error Handling  
  
6. **Integration**

Integrated Development Environment (IDE) such as IntelliJ IDEA or Eclipse

  - Continuous Integration (CI) Tool

:**Calculator Automation Test Cases**

1. **Test Case: Addition Operation**

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**Test Steps**:

1. Launch the calculator application.  
     2. Enter the first number.  
     3. Click on the "+" (addition) button.  
     4. Enter the second number.  
     5. Click on the "=" (equals) button.  
     6. Verify that the calculated result is correct.

Expected Result:  
  The calculator should correctly perform the addition operation and display the accurate result.

1. **Test Case: Subtraction Operation:**

**Test Steps**:

1. Launch the calculator application.  
     2. Enter the first number.  
     3. Click on the "-" (subtraction) button.  
     4. Enter the second number.  
     5. Click on the "=" (equals) button.  
     6. Verify that the calculated result is correct.  
     
     Expected Result:  
     The calculator should correctly perform the subtraction operation and display the accurate result.

**3.Test Case: Multiplication Operation**

**Test Steps**:

1. Launch the calculator application.  
  2. Enter the first number.  
  3. Click on the "x" (multiplication) button.  
  4. Enter the second number.  
  5. Click on the "=" (equals) button.  
  6. Verify that the calculated result is correct.

  Expected Result:  
  The calculator should correctly perform the multiplication operation and display the accurate result.

**4.Test Case: Division Operation**

**Test Steps**:  
   1. Launch the calculator application.  
   2. Enter the first number.  
   3. Click on the "÷" (division) button.  
   4. Enter the second number.  
   5. Click on the "=" (equals) button.  
   6. Verify that the calculated result is correct.

  Expected Result:  
  The calculator should correctly perform the division operation and display the accurate result. It should also handle division by zero appropriately.

5. Test Case: Clear Button Functionality

  Test Steps:  
  1. Launch the calculator application.  
  2. Enter a number.  
  3. Perform a calculation.  
  4. Click on the "C" (clear) button.  
  5. Verify that the calculator display is cleared and reset.  
  
  Expected Result:  
  Clicking the clear button should clear the calculator display and reset it to its initial state.