**Test Case 01**

* **Test Case ID**: TC\_CALC\_01
* **Test Description**: Verify addition of two positive integers
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 5
  2. Enter the second number as 3
  3. Select the + operation
  4. Click the = button
* **Expected Result**: The result displayed is 8

**Test Case 02**

* **Test Case ID**: TC\_CALC\_02
* **Test Description**: Verify subtraction of a positive and negative integer
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 7
  2. Enter the second number as -4
  3. Select the - operation
  4. Click the = button
* **Expected Result**: The result displayed is 11

**Test Case 03**

* **Test Case ID**: TC\_CALC\_03
* **Test Description**: Verify multiplication of decimal numbers
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 2.5
  2. Enter the second number as 4
  3. Select the \* operation
  4. Click the = button
* **Expected Result**: The result displayed is 10.0

**Test Case 04**

* **Test Case ID**: TC\_CALC\_04
* **Test Description**: Verify division of two positive numbers
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 20
  2. Enter the second number as 5
  3. Select the / operation
  4. Click the = button
* **Expected Result**: The result displayed is 4

**Test Case 05**

* **Test Case ID**: TC\_CALC\_05
* **Test Description**: Verify handling division by zero
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 15
  2. Enter the second number as 0
  3. Select the / operation
  4. Click the = button
* **Expected Result**: An error message is displayed saying "Division by zero is not allowed"

**Test Case 06**

* **Test Case ID**: TC\_CALC\_06
* **Test Description**: Verify handling of non-numeric input in the first operand
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first input as abc
  2. Enter the second number as 5
  3. Select the + operation
  4. Click the = button
* **Expected Result**: An error message is displayed saying "Invalid input"

**Test Case 07**

* **Test Case ID**: TC\_CALC\_07
* **Test Description**: Verify handling of non-numeric input in the second operand
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 5
  2. Enter the second input as xyz
  3. Select the - operation
  4. Click the = button
* **Expected Result**: An error message is displayed saying "Invalid input"

**Test Case 08**

* **Test Case ID**: TC\_CALC\_08
* **Test Description**: Verify BODMAS operation is handled correctly
* **Preconditions**: Calculator supports full expressions with BODMAS rule
* **Test Steps**:
  1. Enter the expression as 2 + 3 \* 4
  2. Click the = button
* **Expected Result**: The result displayed is 14

**Test Case 09**

* **Test Case ID**: TC\_CALC\_09
* **Test Description**: Verify handling of empty input in the first operand
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Leave the first input blank
  2. Enter the second number as 4
  3. Select the + operation
  4. Click the = button
* **Expected Result**: An error message is displayed saying "Input cannot be empty"

**Test Case 10**

* **Test Case ID**: TC\_CALC\_10
* **Test Description**: Verify handling of invalid operation symbol
* **Preconditions**: Calculator application is running
* **Test Steps**:
  1. Enter the first number as 5
  2. Enter the second number as 3
  3. Select an invalid operation symbol %
  4. Click the = button
* **Expected Result**: An error message is displayed saying "Invalid operation"