Test Cases for Simple Calculator Application

| **Test Case ID** | **Test Description** | **Preconditions** | **Test Steps** | **Expected Result** |
| --- | --- | --- | --- | --- |
| TC\_CALC\_001 | Verify addition of two positive integers | Calculator is open and functional | 1. Enter 10  2. Press +  3. Enter 5  4. Press = | Result displayed as 15 |
| TC\_CALC\_002 | Verify subtraction with negative result | Calculator is open | 1. Enter 8  2. Press -  3. Enter 12  4. Press = | Result displayed as -4 |
| TC\_CALC\_003 | Verify multiplication of two decimal numbers | Calculator is open | 1. Enter 2.5  2. Press \*  3. Enter 4.2  4. Press = | Result displayed as 10.5 |
| TC\_CALC\_004 | Verify division of a number by non-zero number | Calculator is open | 1. Enter 20  2. Press /  3. Enter 4  4. Press = | Result displayed as 5 |
| TC\_CALC\_005 | Verify division by zero (invalid input) | Calculator is open | 1. Enter 9  2. Press /  3. Enter 0  4. Press = | Error message: "Cannot divide by zero" |
| TC\_CALC\_006 | Verify BODMAS rule execution | Calculator is open | 1. Enter 5 + 2 \* 3  2. Press = | Result displayed as 11 (Multiplication before Addition) |
| TC\_CALC\_007 | Verify input of non-numeric characters | Calculator is open | 1. Enter 5 + a  2. Press = | Error message: "Invalid input" |
| TC\_CALC\_008 | Verify addition of negative numbers | Calculator is open | 1. Enter -7  2. Press +  3. Enter -3  4. Press = | Result displayed as -10 |