**Practical No :- 3**

**Test case name:-** Design test cases for simple calculator application

**Objective :** This Projects Aims to test different feature of simple calculator application (having addition, subtraction) .

Different testing methods and level of testing are use to test a simple calculator application.

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| Test Case Template | |
| Test Case Id: 3 | Test Designed by: Rutuja Manekar |
| Test Priority ( Low/Medium/High) : Medium | Test Designed Date: 05/03/2024 |
| Simple calculator application | Test Executed by : Rutuja Manekar |
|  | Test Execution Date: 05/03/2024 |
| **Test Title** : To test whether simple calculator application function properly or not . | |
| **Description** : Test different feature of calculator application such addition, subtraction and so on. | |

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| **Sr No** | **Test Feature** | **Test**  **Steps** | **Expected Result** | **Actual Result** | **Status P/F** |
| 1 | Addition | Enter 5 + 3 on the calculator | Display shows 8 | Display shows 8 |  |
| 2 | Subtraction | Enter 7 - 2 on the calculator | Display shows 5 | Display shows 5 |  |
| 3 | Multiplication | Enter 4 \* 6 on the calculator | Display shows 24 | Display shows 24 |  |
| 4 | Division | Enter 10 / 2 on the calculator | Display shows 5 | Display shows 5 |  |
| 5 | Addition Error Handling | Enter a non-numeric character, then 5 + 3 | Display shows an error | Display shows an error |  |
| 6 | Subtraction Error | Enter 7 - "abc" on the calculator | Display shows an error | Display shows an error |  |
| 7 | Division by Zero | Enter 8 / 0 on the calculator | Display shows an error | Display shows an error |  |
| 8 | Multiplication Error | Enter 4 \* "xyz" on the calculator | Display shows an error | Display shows an error |  |
| 9 | Clear Button | Perform a calculation, then press the clear button | Display shows 0 | Display shows 0 |  |
| 10 | Decimal Calculation | Enter 3.5 + 2.5 on the calculator | Display shows 6 | Display shows 6 |  |
| **Sr No** | **Test Feature** | **Test Steps** | **Expected Result** | **Actual Result** | **Status P/F** |
| 11 | Complex Calculation | Enter (4 + 2) \* 3 - 1 / 2 | Display shows 9.5 | Display shows 9.5 |  |
| 12 | Large Numbers | Enter 1000000 \* 1000000 | Display shows 1e+12 | Display shows 1e+12 |  |
| 13 | Decimal Precision | Enter 1.1 + 2.2 | Display shows 3.3 | Display shows 3.3 |  |
| 14 | Memory Function | Perform 5 + 3 and then store the result in memory | Memory stores 8 | Memory stores 8 |  |
| 15 | Memory Recall | Recall the value stored in memory | Display shows 8 | Display shows 8 |  |
| 16 | Memory Clear | Store a value in memory and then clear the memory | Memory is empty | Memory is empty |  |
| 17 | Square Root Function | Enter √9 on the calculator | Display shows 3 | Display shows 3 |  |
| 18 | Percentage Calculation | Enter 20% of 50 on the calculator | Display shows 10 | Display shows 10 |  |
| 19 | Exponentiation | Enter 2^3 on the calculator | Display shows 8 | Display shows 8 |  |
| 20 | Combination of Operations | Enter (5 + 3) \* 2 - 1 / 3.5 | Display shows 4.5714 | Display shows 4.5714 |  |