**Test Case (Template)**

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| **ID/Title:** | | TC#001 – Calculator App | | | |
| **Type:** | | Black Box | | | |
| **For System:** | | NSCC Android Development – Nick Veniot | | | |
| **Use Case:** | | Use the app. | | | |
| **Prerequisites:** | | App has launched. | | | |
| **Form Element Test Listing: (add more element tests as required)** | | | | | |
| **Test #** | **Form Element Function/Purpose** | | | **Form element type (e.g. Text Box)** | |
| 1 | Testing weird button combinations. | | | Button, Text Box. | |
| 2 | **Invalid numbers .** | | | **Buttons, Text Box.** | |
| 3 | **Valid operations.** | | | **Buttons, Text Box.** | |
|  | | | | | |
| **Test #** | **Scenario** | | **Expected Result** | | **Actual Result** |
| 1 | Press = without any input. | | Nothing changes | | Bottom view blank. |
| Deleting input past the first number. | | Field stays empty but nothing changes | | Expected result. |
| Pressing equals twice after an equation. | | Stays the same as result or accumulates | | Lower view goes blank, nothing happens. |
| Using the decimal button twice. | | Doesn’t let the . get added | | Expected result. |
| Using the negate button midway through an operation. | | Just switches the second number | | Expected result. |
| 2 | Division by 0 | | “NaN” appears on the lower text view | | Expected result. |
|  | Rolling calculation(2+2-1) | | Does the calculation as 2+2 and then 4 - 1 | | Expected result . |
|  | Inputting numbers until something happens. | | input stops at a certain point. | | Expected result. |
|  | Integer overflow max value number entered.  (2147483647 + 2). | | Program crashes. | | Input handled displays “2.147483649E9”. |
|  | Enter a number and multiply it by the result until something happens. | | Program crashes. | | Displays “infinity”. |
|  |  | |  | |  |
| 3 | Addition operator. | | Does all equations successfully, and accurately. | | Expected result. |
|  | Subtraction operator. | | Does all equations successfully, and accurately, turns a number negative when subtracted past 0 . | | Expected result. |
|  | Division operator. | | Displays “nan” for division by 0 and does everything else successfully and accurately . | | Expected result. |
|  | Multiplication operator. | | Does all equations successfully, and accurately . | | Expected result. |
|  | Negation operator. | | Negates the current number being inputted and nothing else. | | Expected result. |
| **Notes, questions and suggested improvements: Things that still need to be fixed:**   * **The method of removing the zero from the screen whenever the first input is given is causing a few bugs.** * **Pressing the equals button twice can break the current equation.**   **Features to add:**  **-Exponents**  **-History**  **-Order of operations** | | | | | |
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