Test Case (Template)

ID/Title:	TC#001 – Order Form
Type:	Black Box
For System:	Mobile Math Calc
Use Case:	Execute the mobile math calculator
Prerequisites:	There is no order of operations. For example, 2+2*3 becomes 4*3. In each case where a specific control is tested, the values of all other controls were known and valid.

Form Element Test Listing: (add more element tests as required)

Test #	Form Element Function/Purpose	Form element type (e.g. Text Box)
1	A user performs simple mathematical calculations in a 'rolling' fashion.	Text Box

Form Element Test:

Test #	Scenario	Expected Result	Actual Result
1	When the calc runs, the keyboard provided by Android should not be shown.	The built-in keyboard should be shown.	Shown as expected.
	When a number key is pressed	Each key should be shown on the screen.	Shown as expected.
	When an operator or a special key is pressed	The calculator function should be executed properly. Addition (+), Subtraction (-), Multiplication (*), Division (/), Neg / Pos (+/-) – show minus symbol in	Shown as expected.

		front of the number or remove the symbol. Decimal (.) - show decimal symbol following the number. Remove Digital (<-) – remove the last number. Clear (C) – clear all numbers and symbols Calculate (=) – show the result	
	Each operation is executed, and an answer calculated a second operator or '=' being pressed.	For example, if any operator or '=' is pressed after 2*2, show the result on the screen	Shown as expected.
	When the first key is an operator	Nothing should be shown on the screen.	Shown as expected.
	When getting number, operator (-), number, and (+/-)	Show number + number on the screen	Shown as expected.
	With the left number 0 or nothing displayed, when decimal(.) key is pressed	Show "0." On the screen	Shown as expected.
…	With the last character decimal (.) displayed when decimal(.) key is pressed.	Ignore the second decimal(.)	Shown as expected.
	With the last character decimal (.) displayed when an operator (+, -, *, or /) key is pressed.	Show only number without the decimal (.)	Shown as expected.
	When the number as a result has 0 in the last position	Show number without zero	Shown as expected.

Notes, questions and suggested improvements:

~~Instead of using a text box to get numeric data (e.g. 1-3 for the Beer Bucket order), use a drop down instead~~

Instead of using a button widget as the keypad, use a gridview and its adapter referred by tutorial.
(reference: https://abhiandroid.com/ui/gridview)