

Task 4: Integration and Acceptance Testing

User requirements:

“As a user I want to be able to perform simple arithmetic functions in a web browser.”

Test 1 - Do the number buttons work to update the display of the running total?

Press each number key in turn and confirm they are displayed in the running total field

Number	0	1	2	3	4	5	6	7	8	9
Pass/ Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Test 2 - Do each of the arithmetical operations work to update the display with the result of the operation?

Press each operator key in to perform a simple calculation and confirm the correct result is displayed. e.g. $1 + 1$, $2 * 2$

Operator	+	-	/	*	=	clr
Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

Test 3 - Can we chain multiple operations together?

Enter the following calculation and confirm the result

Operation	$1 + 1 + 1 + 1 = 4$
Pass/Fail	Pass

Test 4 - Does it work as expected for a range of numbers? (positive, negative, decimals, large numbers)

Enter the following numbers and check that the calculator displays the correctly

Number	+99	-99	99.99	99999999
Pass/Fail	Pass	Pass	Pass	Pass

Test 5 - What does the code do in exceptional circumstances?

Enter the following operation

Operation	999999999999 = error
Pass/Fail	Pass

Test 6 - If you divide by zero, what is the effect?

Enter the following operation

Operation	100/0 = error
Pass/Fail	Pass