



Build a Simple Calculator



-BY SHIVAM KUMAR GIRI

PROBLEM STATEMENT

Build a basic calculator form using html and JavaScript. The HTML calculator form has 3 input boxes. the first box takes operand 1 as input, which has to be any valid real number like 1,5, 1, -1 etc. The second box asks you to input an operator like -, +, *, /, %.

The third input box takes operand 2 which has to be any valid real number like 1,5, 1, -1 etc. The form has a button called Calculate. On clicking the Calculate button a JavaScript function CalculateResult is called which validates all the fields and prints the result in the Result box by applying the inputted operator to the 2 numbers or operands.

ABSTRACT

Here I used the Html, JavaScript and Bootstrap to create basic calculator application.

Here I used 2 JavaScript functions:

1. Clearall: for reset
2. CalculateResult: that formulate the errors and performs he operation with the real number.

Here I used 3 type of validations:

1. If either off operand is missing
2. If the operators missing
3. If divide by 0 or remainder with divisor as 0

I used bootstrap for basic styling.

SCREENSHOTS

Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
2	+	2	SUBMIT	4	C

2 + 2 = 4

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Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
2	-	-34	SUBMIT	36	C

$$2 - -34 = 36$$

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Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
5	/	-4	SUBMIT	-1.25000	C

$$5 / -4 = -1.25000$$

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Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
5	/	0	SUBMIT	Ans	C

Illegal Operation, divide by 0, press C

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Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
5	--Select--	2	SUBMIT	Ans	C

Illegal Operation, operator not selected, press C

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Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
6	+	Enter Real Number	SUBMIT	Ans	C

Illegal Operation, oprand cannot be null. Press C

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Javascript Calculator

SHIVAM'S CALCULATOR

1 st Number	Operator	2 nd Number	Submit	Answer	Clear
6	%	0.78	SUBMIT	0.54000	C

6 % 0.78 = 0.54000

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THE END