Web-based Calculator

Student Data:-

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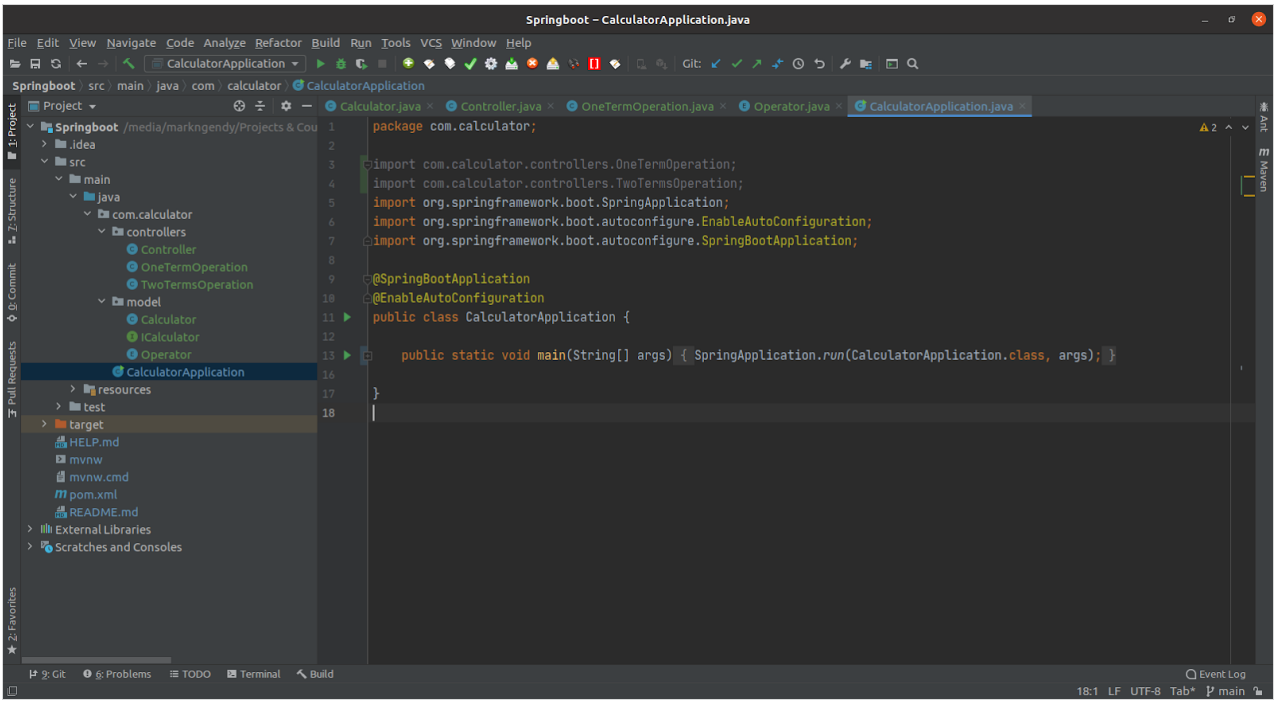
Problem Statement

Build a web-based Calculator similar to that of windows.

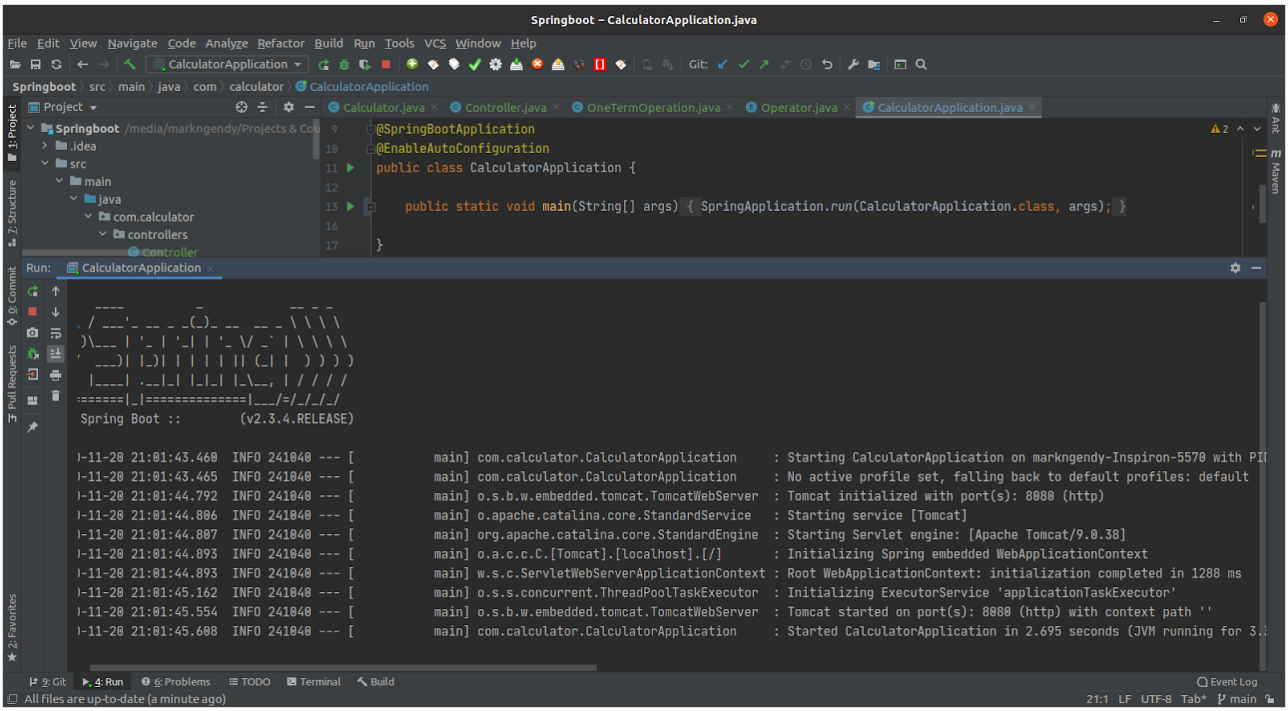
- The buttons should be web buttons.
- No need for fancy styling
- Calculation should be done server-side.
- For simplicity, You can ignore the difference between the C and CE buttons.
- Repeating pressing the = button does not issue new calculations
- Handle exceptions such as dividing by 0, by displaying an E.

How To Run The App

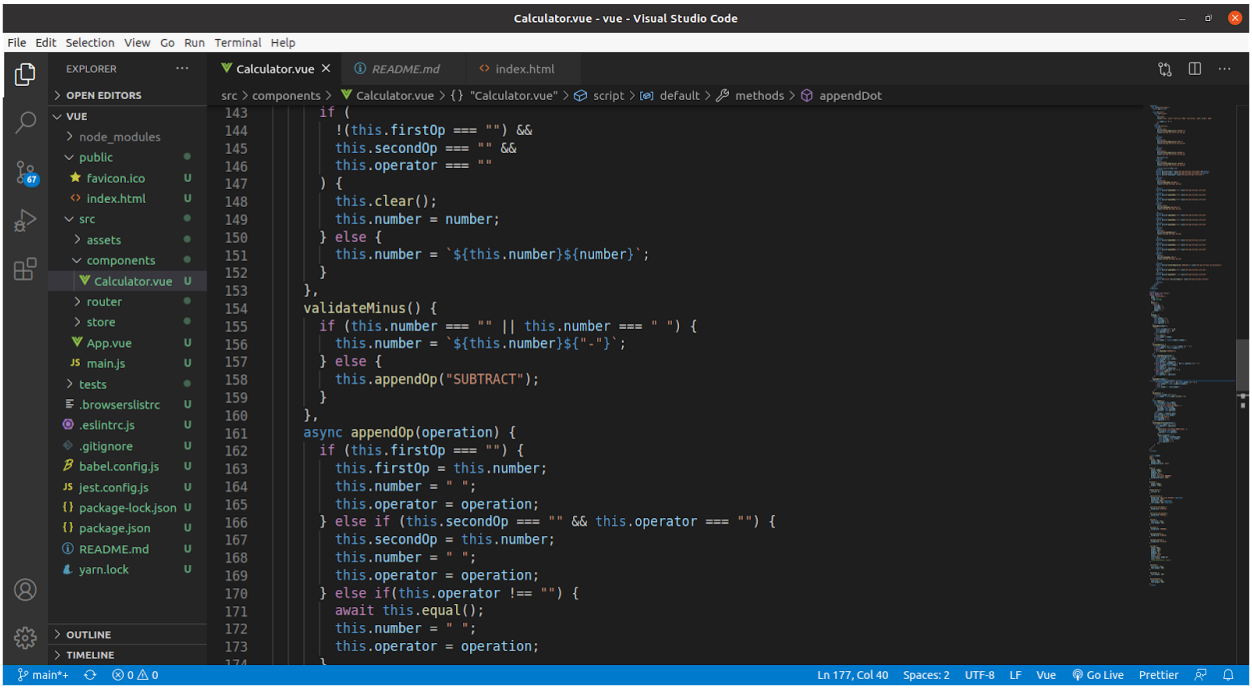
1. First you should open the backend project using intellij IDE.



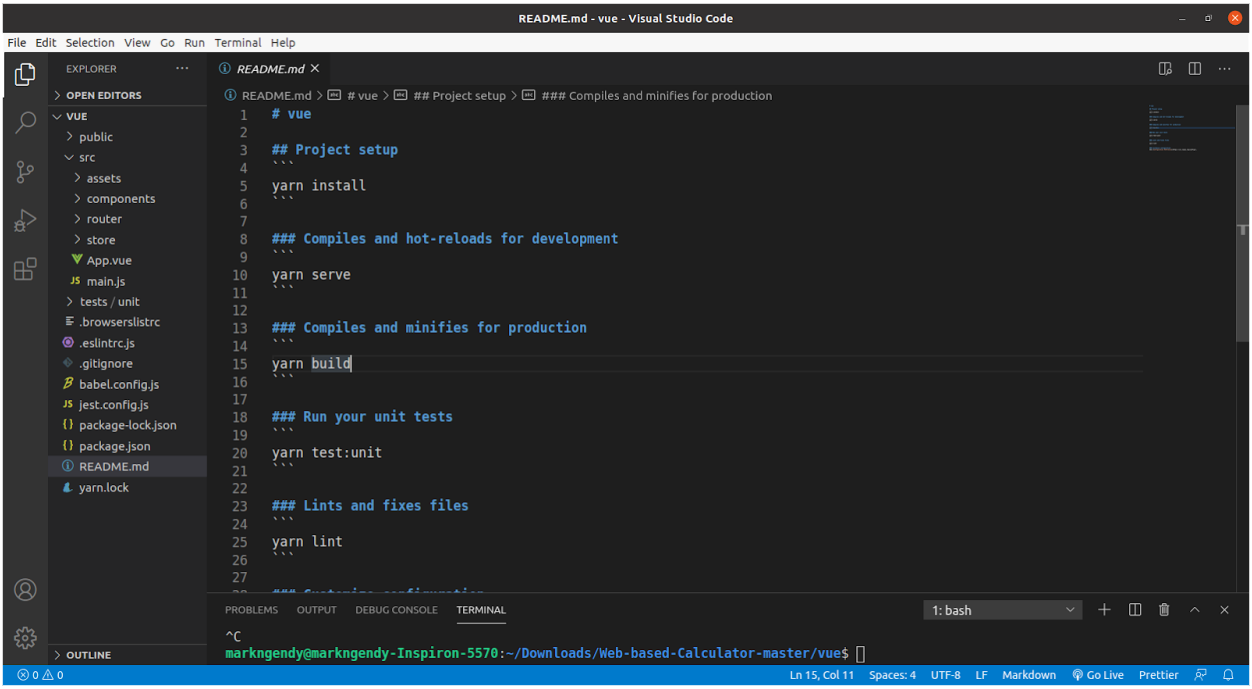
2. Then you should build then run the backend project and it should run at Port **localhost 8080** with Tomcat server.



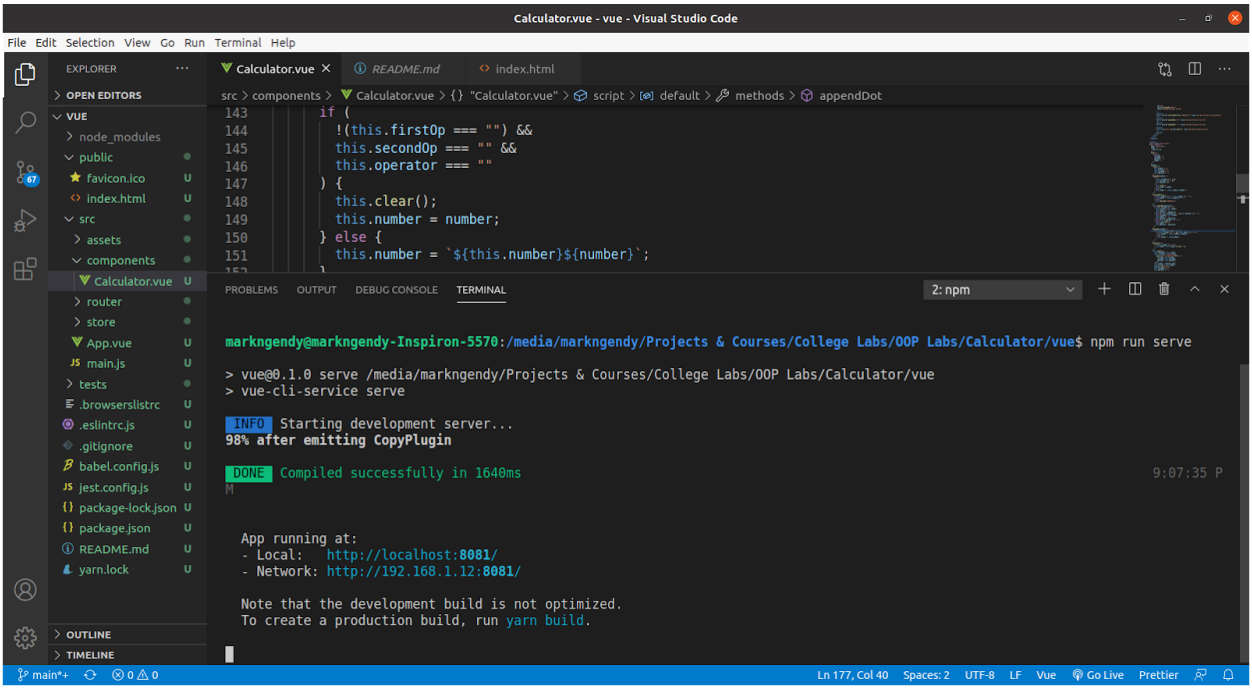
3. Now you should open the frontend project using a suitable IDE (Visual Studio Code)



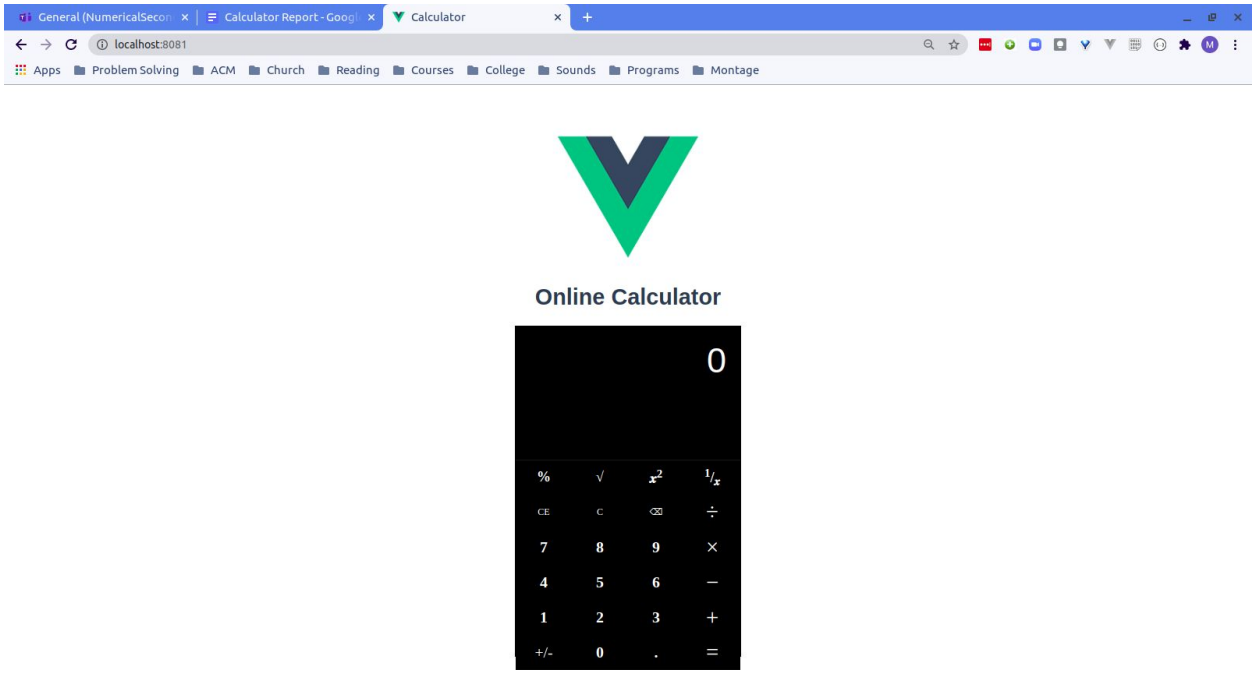
4. Run the commands in the terminal of the README.md file



5. To run the Vue project type (yarn serve) command in terminal.
6. The frontend project will run at port **localhost 8081**.



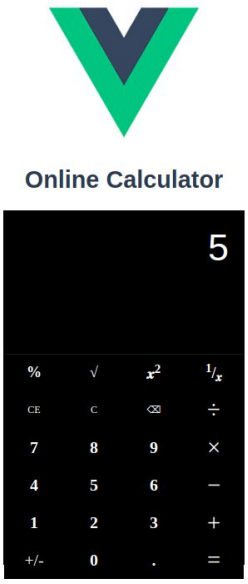
7. Open the browser on Url **http://localhost:8081/**



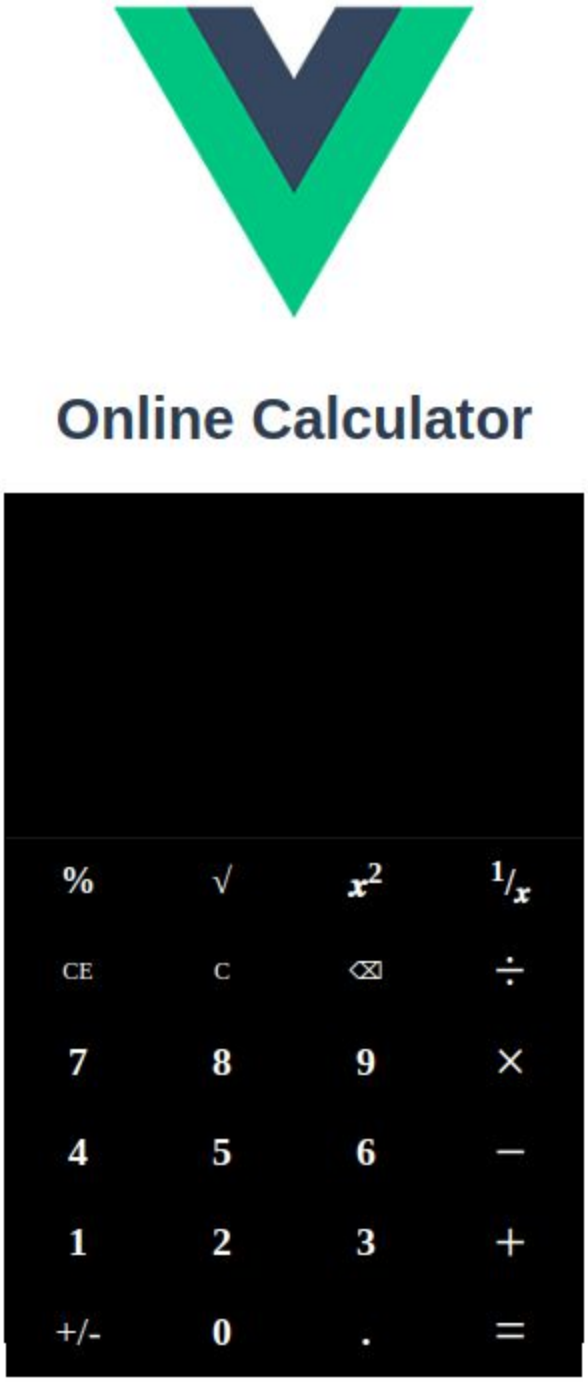
Sample Runs

First Sample run we will add 5 & 8

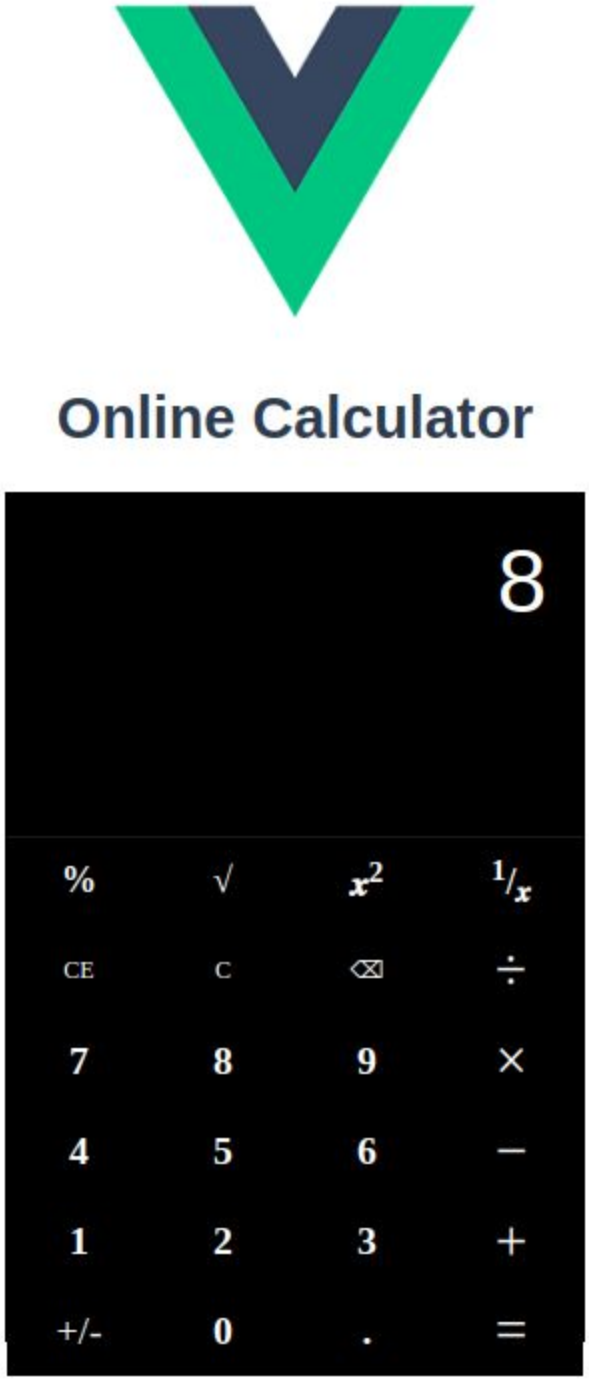
1- Click to write the first operand (5)



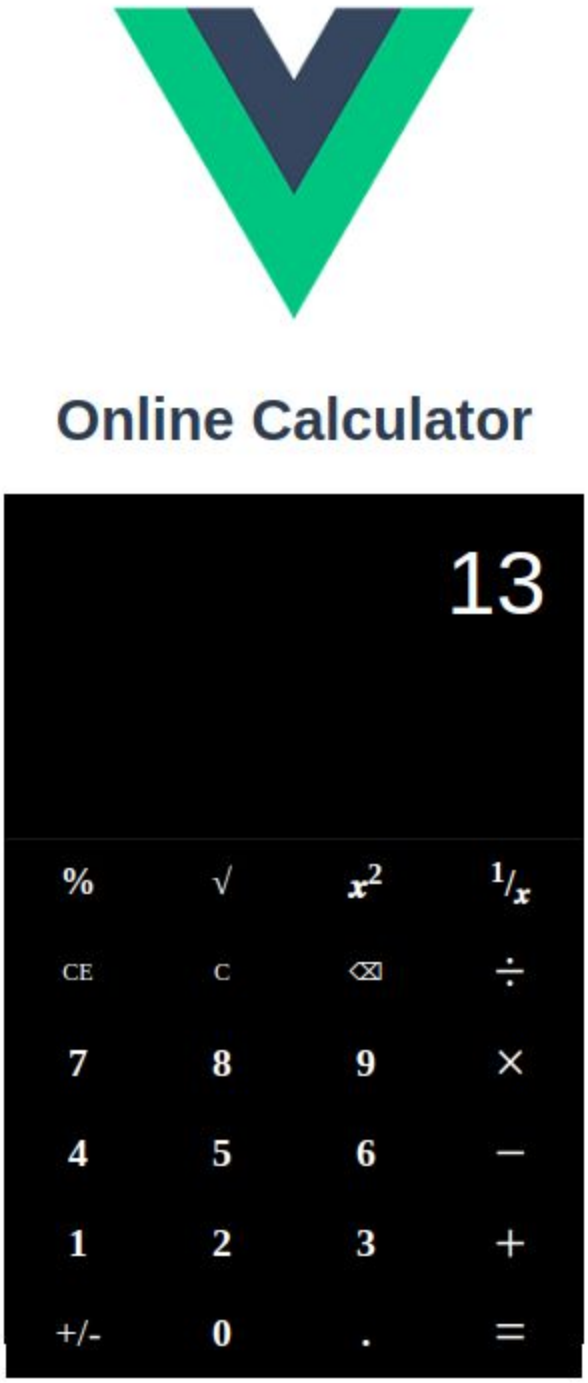
2- Click the plus button (+)



3- Click to write the second operand (8)

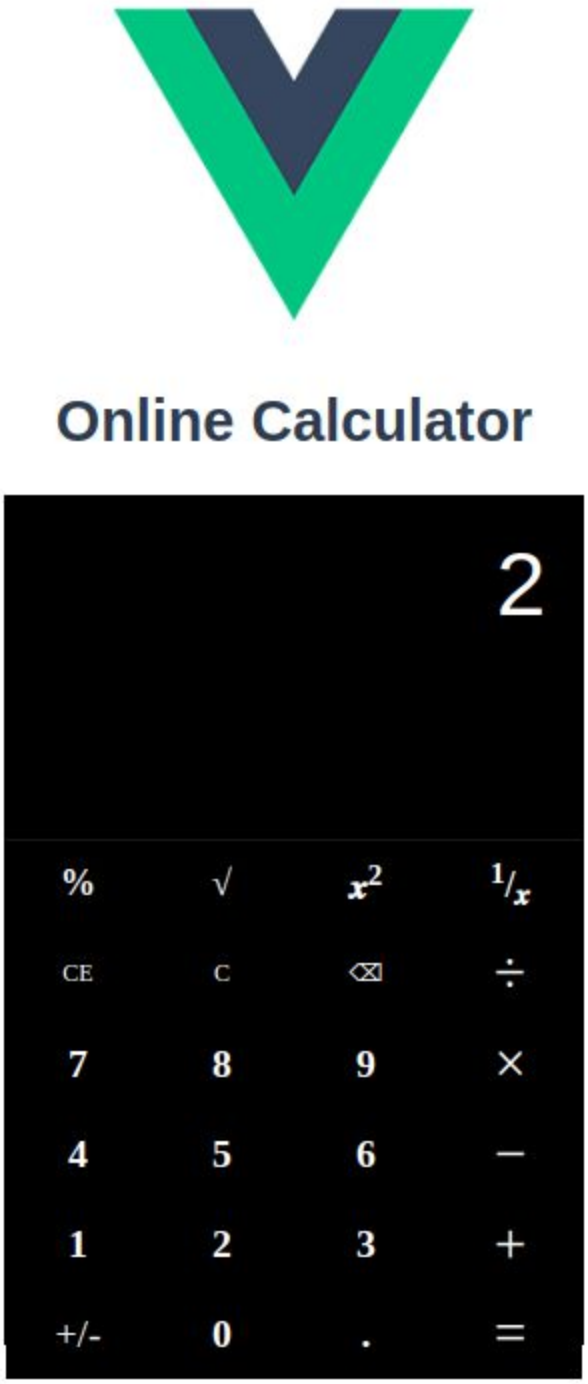


4- Click equal to get the result displayed (13)

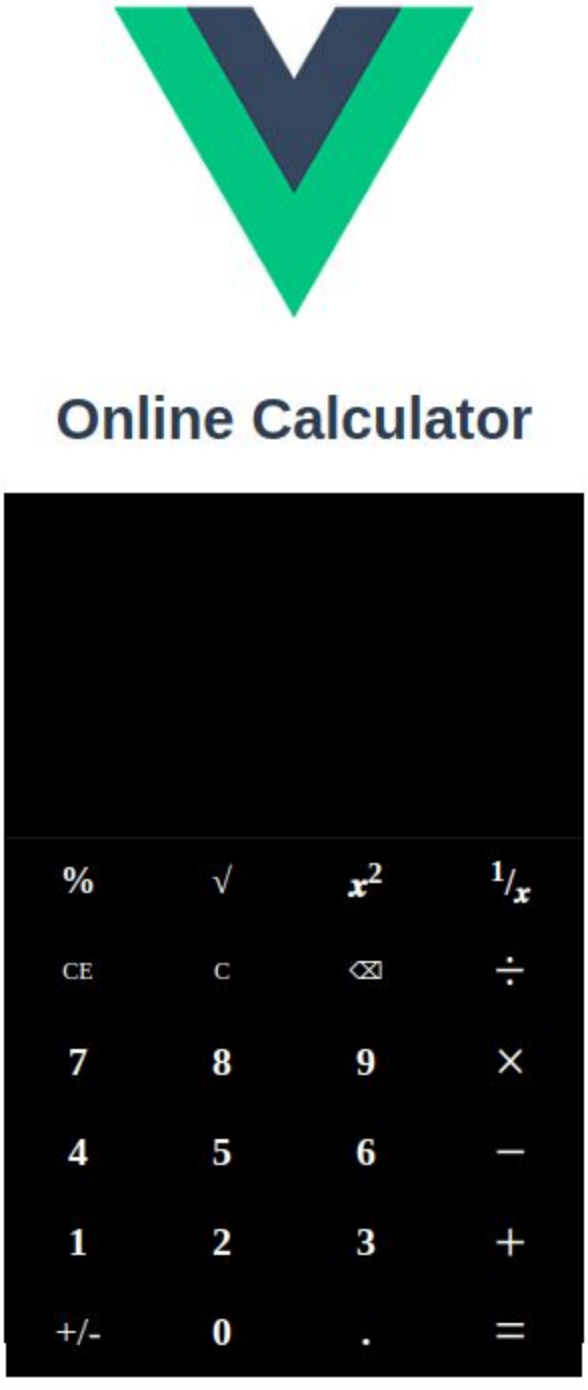


Second Sample run we will calculate (2 + -25 + 8)

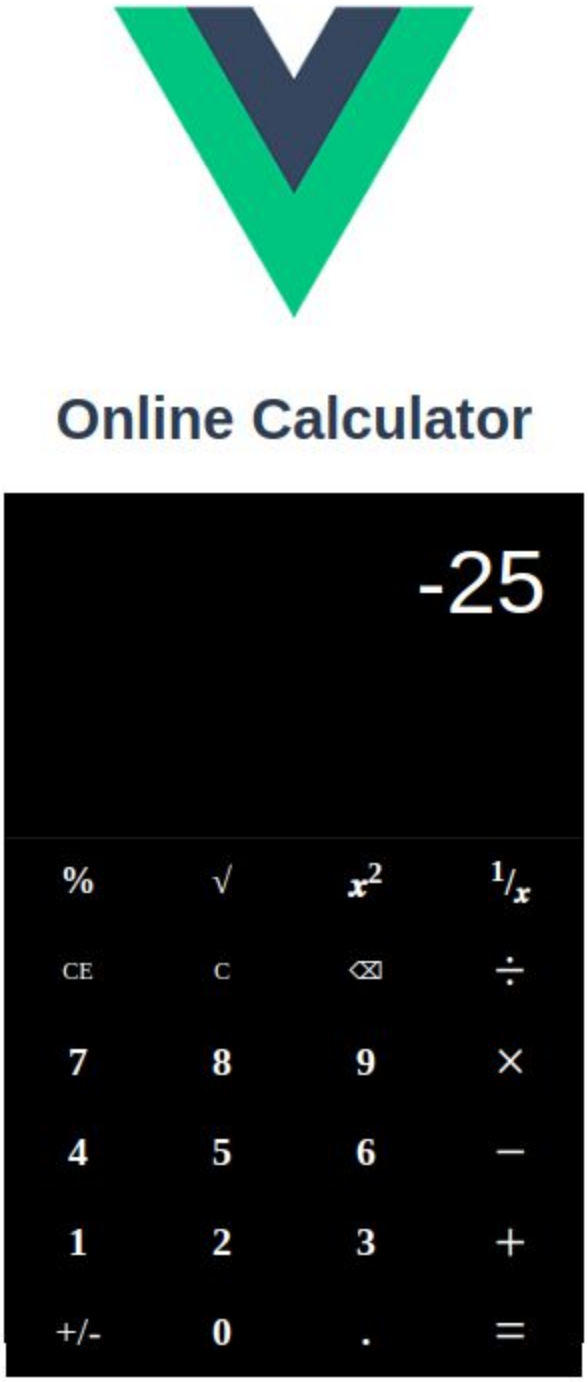
1- Enter number 2



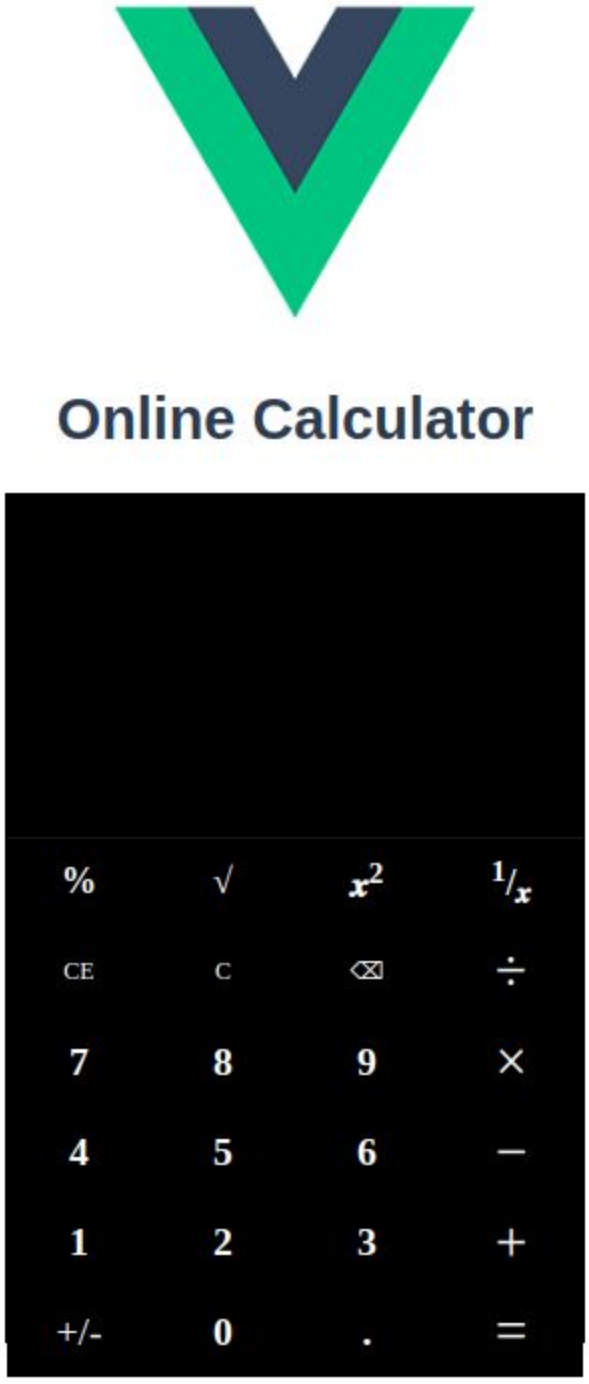
2- Press Add +



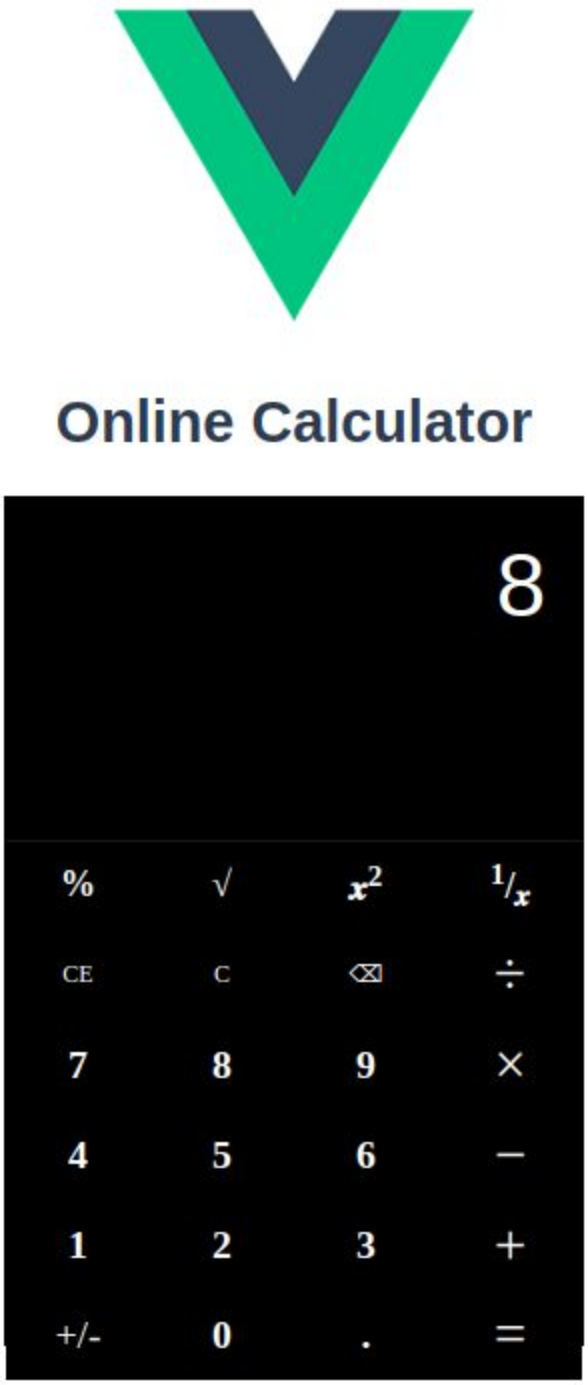
3- Enter number -25



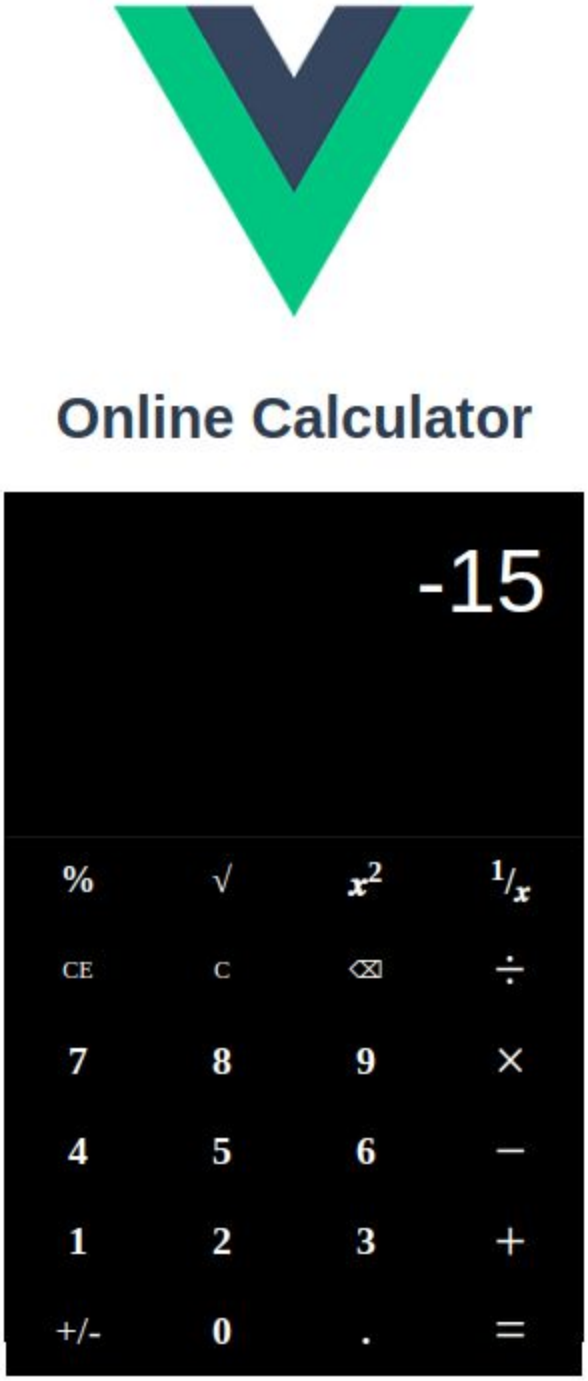
4- Press Add +



5- Enter number 8



6- Press equal to get the result



Features

I. Multiple Operations

This calculator application performs multiple operations like (addition, squaring, division, calculating inverse, calculating absolute value of a number, ...)

II. Accumulative Operations

You can perform sequential operations one after another without clearing the result

III. Error & Difference Validations

When you divide with irregular operation (divide by zero), An error message will be displayed on the screen.

The calculator can distinguish the difference sign for performing operation and the difference sign for negative number so it deals with negative numbers without errors.