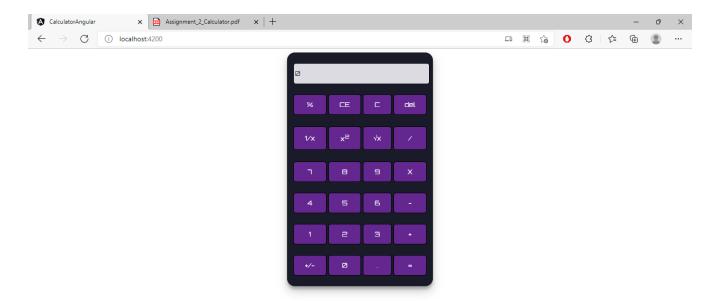
Assignment 2 (Calculator) By: Louai Zahran (19016198)

How to use:

- 1. Extract the zip-file.
- You'll find 2 folders, calculator and calculator-angular, responsible for the back-end and front-end aspects of the project, respectively. Inside the "calculator-angular" folder install the required node_modules folder by running the command npm install
- 3. Run the command ng serve to start the front-end and run the CalculatorApplication.main method in "19016198_56_louai-zahran_lab2\calculator\src\main\java\com\university\programming2\calculat or\CalculatorApplication.java" to start the back-end.
- 4. Finally, open http://localhost:4200/ in your browser to start using the app. You should see the following page:



Notes:

- This calculator only supports performing 1 operation at a time, meaning that you cannot chain multiple operators in one line. For example, you cannot evaluate the expression "1+2+4", alternatively, you can evaluate the expression "1+2" then click on "=" and the result "3" will be printed, only then you can type "+4" and click on "=" to get the same answer, 7.
- In order to prevent multiple operations on the same line, operators are disabled once you press on any operator. If you changed your mind and want to choose a different operator, you can press on the "del" button and the operators will be enabled again.
- To type negative numbers, you should not press "-" before entering your number, alternatively, you should enter the number first then press the negation sign "+/- ".
- In case of entering an invalid operation, the letter 'E' will be printed, meaning that the operation resulted in an error. To enter the next operation, press 'C', 'CE', or 'del'.
- Trying to input a number with 2 decimal points will result in an error.
- Note that once you get the result of any operation, your next action will act on that result. For example, if you evaluated the expression "1+2" you'll get the value "3", but if you decide to input the number "4" for a new operation, this "4" will be appended to the result of the previous expression giving you "34". If you want to delete the previous answer and start a new operation, simply press 'C' or 'CE' first then enter the new data.