**ICE3 Date: March 22nd, 2024**

In this ICE you will practice writing classes and follow guidelines discussed in class. Write a Java program that calculates the sum and followed by division operation. The program will first prompt the user to enter the number of values they want to input, then prompt them to enter each value. Then calculate and display the sum of the input values. Prompt the user to enter the number which divides the sum value.

The program should also use try-catch blocks to handle the following exceptions:

* If the user inputs a non-numeric value, the program needs to output a user defined exception message and re-prompt the user to enter a valid numeric value.
* If the user entered 0 as divisor, then it should throw a user defined exception which will display about divide by 0 exception. The message should include the user’s name.

**Sample execution:**

Enter your last name: Adam

Enter the count of values: 3

Enter value 1: 10

Enter value 2: ab

Hi Adam, you have not entered a numeric value, please enter a number

Enter value 2: 20

Enter value 3: 30

The sum is: 60

Enter a number to divide the sum: 10

The division of 60 / 10 = 6

**Sample execution:**

Enter your last name: Chris

Enter the count of values: 4

Enter value 1: 11

Enter value 2: 22

Enter value 3: 33

Enter value 4: A

Hi Chris, you have not entered a numeric value, please enter a number

Enter value 4: 44

The sum is: 110

Enter a number to divide the sum: 0

Hi Chris, this will cause divide by 0 exception, please enter a non-zero value

Enter a number to divide the sum: 5

The division of 110 / 5 = 22

# General Requirements

* Include an opening comment with your name, the name of the program, the date, and a short description.
* Follow the style guide! Use descriptive names and sensible datatypes for variables, constants, arrays, functions, etc. that follow our naming conventions. Use good spacing and make sure braces ({}) are located where they are supposed to be.
* Outputs should be obtained as mentioned in the sample execution. While prompting for user name enter your last name.
* Attach the output for valid and invalid input values,

# Submission

* Make sure to submit your work as word file in DC connect which consist of java code and minimum two executions for valid and invalid input values.
* One of the execution must have divisor value as 0 to show the user defined exception has been caught.