# Day 5 - Core Java / EXCEPTION HANDLING

## Topics:

- Using Efficient Exception Handling
- Resource Clean up Rules and Finally.
- Custom Exception Hierarchy
- Exception Wrapper
- Exception Loggings

### Assignments:

### Assignment #1

Write a Java application to accept integers in a loop. After each number is accepted, the user should be asked if he/she wishes to continue. If the user inputs "NO", then the loop should be stopped and following output should be displayed:

```
Number of inputs = X

Number of integer inputs = Y

Number of non-integer inputs = Z

Sum of all integer inputs = XX

The integer inputs = N1, N2, N3, ...

The non-integer inputs = ASD, SDF, DFG, ...

X, Y, Z, etc should be actual values, based on the inputs.
```

#### HINT:

Use java.util.Scanner for accepting data from the user.

```
Scanner s = new Scanner(System.in);
String input = s.nextLine();
int n = s.nextInt();
double d = s.nextDouble();
// ... s
```

Write a function called "calendar" that takes a String representing year/month in YYYY-MM format and returns a two-dimensional array representing the calendar for the input month and year.

For example, if the input is "2018-03", then the output is:

For input "2018-02", the output should be:

The method should throw a custom exception **InvalidDateException**, in case if the input does not represent a valid year/month combination, and **InvalidInputException** in case if the input is not in the expected YYYY-MM format.