Assignment 1 – Single exceptions

- a) In this task, you are going to trigger a runtime exception by writing a simple program that is dividing a number by 0.
 - For example int x = 5/0;
 - Observe first what is happening when you run the program.
 - Your first task is to handle the exception yourself by using try-catch and catch the exception as a general exception (hint: Exception e).
- b) Change the try catch from handling a general Exception to the ArithmeticException. Add a code fragment that divides a number by 0 inside the catch block and see what happens.

Assignment 2 – Multiple exceptions

a) Use the following code provided below. Try the following values and study which exceptions are caught: 0, 4, character, no value What can you observe?

- b) Extend the code below with a try-catch block that catches when the index of the list is out of bound (ArrayIndexOutOfBoundsException). Note: Exception is triggered with the +1 in for (int i = 0; i < (SIZE + 1); i++). Where you should add your code is marked with //TODO.
- c) Add a finally block to the code below. The finally block should close the print writer out if not null and print put a message that it was done. If null it should print a

message that there is no print writer object. Where you should add your code is marked with //TODO

d) Test your solution with the following code:

```
public class TestListOfNumbers {
    public static void main(String[] args) {
        ListOfNumbers list = new ListOfNumbers();
        list.writeList();
    }
}
```