Assignment No. 4

GRN: 12110649

Name of the Student: Sarthak Gopinath Auti

Roll No.: 34 Class: SY-ENTC Division: A Batch: B2

Problem Statement

Write a Java program for following exception, develop a suitable scenario in which the following exceptions occur:

a. divide by zero

b. Array index out of bounds exception

c. Null pointer Exception

Sample Input and Output

Sample Input/Parameter	Expected Output
Try to divide a number by zero	You shouldn't
	divide a number by
	zero.
Try to access the array index which does not	OOPs!!!Array Index
exist.	7 out of bounds for
	length 6.
Try to find the length of String in method	Null Pointer
(pass parameter string as null)	Exception arises!!

CODE:

```
public class Exception {
   public static void main(String[] args) {
      int a = 5;
      int b = 0;
      try {
        int c = a/b;
        System.out.println(c);
      }
      catch (ArithmeticException e) {
            System.out.println(e);
      }
      int s[] = new int[10];
      try {
            s[15] = 50;
      }
      catch (ArrayIndexOutOfBoundsException p) {
            System.out.println(p);
      }
      String S = null;
      try {
            System.out.println(S.length());
      }
      catch (NullPointerException n) {
            System.out.println(n);
      }
}
```

OUTPUT:

```
Exception ×

The community Edition 2022.2\Intellia IDEA\Intellia IDEA\Intellia IDEA\Community Edition 2022.2\Intellia IDEA\Intellia IDEA\Community Edition 2022.2\Intellia IDEA\Intellia IDEA\Community Edition 2022.2\Intellia IDEA\Intellia IDEA\Intellia IDEA\Community Edition 2022.2\Intellia IDEA\Intellia IDEA\
```