

# JAVA LAB PROGRAM

Submitted by,

Tamilvanan B.

2018503566.

MO Batch.

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1. Write a java program that triggers, catches and prints the messages for the following built-in exceptions

- Divide a number by zero
- ArrayIndexOutOfBoundsException
- Numberformat exception
- NoSuchMethod exception

## Program

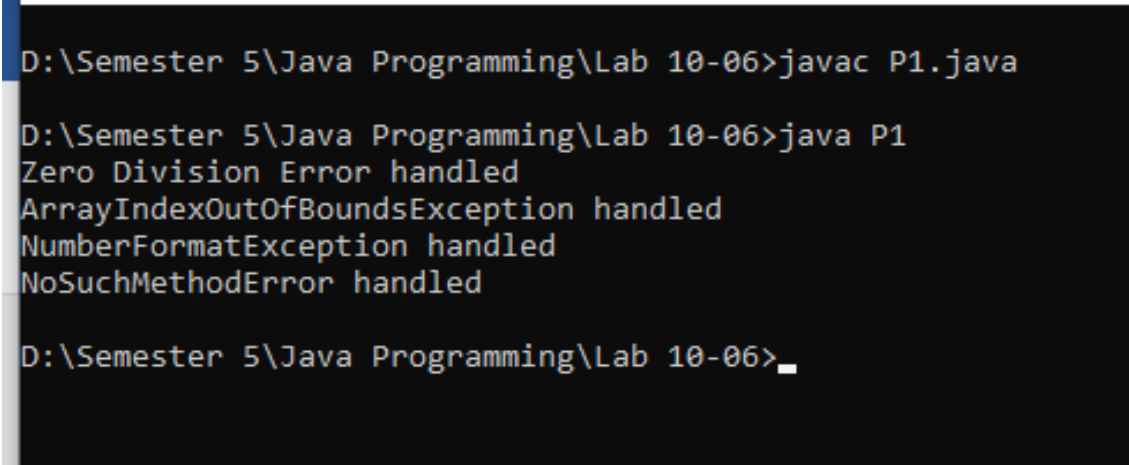
```
public class P1{
    public static void main(String... args){
        int a = 12;
        int b = 0;
        try{
            System.out.println(a/b);
        }
        catch(Exception e){
            System.out.println("Zero Division Error
handled");
        }
        int arr[] = {1, 2, 3, 4, 5};
        try{
            System.out.println(arr[6]);
        }
        catch(Exception e1){
            System.out.println("ArrayIndexOutOfBoundsException
handled");
        }
        String str = "12.23";
        try {
            int d = Integer.parseInt(str);
        }
        catch(Exception e2){
            System.err.println("NumberFormatException
handled");
        }
        try {
            Integer.class.getMethod("unidentified");
        }
```

```

        catch(Exception e3){
            System.out.println("NoSuchMethodError
handled");
        }
    }
}

```

## Output



```

D:\Semester 5\Java Programming\Lab 10-06>javac P1.java

D:\Semester 5\Java Programming\Lab 10-06>java P1
Zero Division Error handled
ArrayIndexOutOfBoundsException handled
NumberFormatException handled
NoSuchMethodError handled

D:\Semester 5\Java Programming\Lab 10-06>_

```

2. Write a program to illustrate the usage of multiple catch statements occurring in a program. The program should also show sub class exception precedence over base class.

## Program

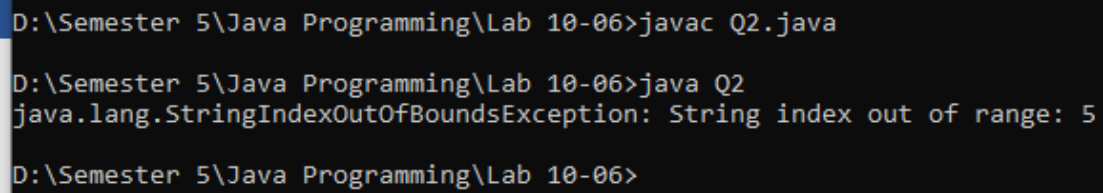
```

import java.io.*;
public class Q2{
    public static void main(String[] args){
        try{
            String str = "msh";
            System.out.println(str.charAt(5));
        }
        catch(StringIndexOutOfBoundsException e){

```

```
        System.out.println(e);
    }
    catch (IndexOutOfBoundsException e) {
        System.out.println(e);
    }
    catch (Exception e) {
        System.out.println(e);
    }
}
}
```

## Output



```
D:\Semester 5\Java Programming\Lab 10-06>javac Q2.java
D:\Semester 5\Java Programming\Lab 10-06>java Q2
java.lang.StringIndexOutOfBoundsException: String index out of range: 5
D:\Semester 5\Java Programming\Lab 10-06>
```