

Name of student: Abhay Omprakash Prajapati		
Roll no: 41	Tutorial No: 5	
Title of LAB Assignment: Exception Handling with Spring boot		
DOP: 25-09-2023	DOS:02-10-2023	
CO Mapped: Co1,Co2	PO Mapped: PO3 ,PO6	Signature:

Example 1: NumberFormatException Handling

```
package com.example.a4_2.controllers;

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

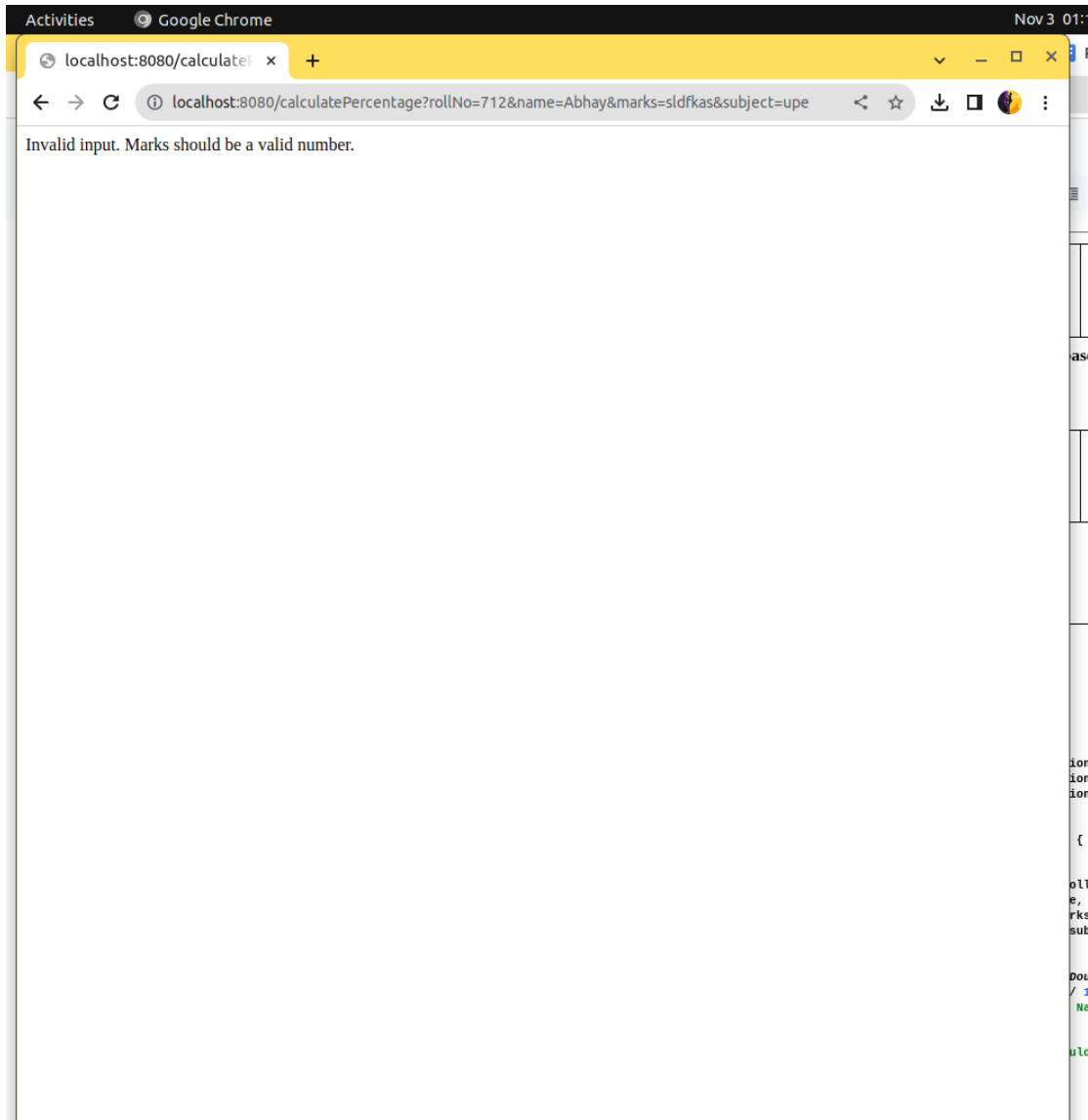
@RestController
public class PercentageCalculatorController {
    @GetMapping("/calculatePercentage")
    public String calculatePercentage(
        @RequestParam("rollNo") String rollNo,
        @RequestParam("name") String name,
```

```

        @RequestParam("marks") String marks,
        @RequestParam("subject") String subject
    ) {
        try {
            double marksValue = Double.parseDouble(marks);
            double percentage = (marksValue / 100) * 100;
            return "Roll No: " + rollNo + ", Name: " + name + ", Percentage: "
+ percentage + "%";
        } catch (NumberFormatException e) {
            return "Invalid input. Marks should be a valid number.";
        }
    }
}

```

Output:



Example 2: Custom Exception Handling

```
//PayoutOutOfBoundsException.java
package com.example.a4_2.exceptions;

public class PayoutOutOfBoundsException extends Exception {
    public PayoutOutOfBoundsException(String message) {
        super(message);
    }
}

//Bank.java
package com.example.a4_2.service;

import com.example.a4_2.exceptions.PayoutOutOfBoundsException;

public class Bank {
    private double balance = 0;

    public void open() {
        System.out.println("Bank account opened.");
    }

    public void deposit(double amount) {
        balance += amount;
        System.out.println("Deposited: " + amount);
    }

    public void withdraw(double amount) throws PayoutOutOfBoundsException {
        if (balance - amount < 500) {
            throw new PayoutOutOfBoundsException("Withdrawal amount is not
allowed. Minimum balance should be 500.");
        }
        balance -= amount;
        System.out.println("Withdrawn: " + amount);
    }
}

//Main.java
public static void main(String[] args) {
    Bank bank = new Bank();
    bank.open();
    bank.deposit(1000);
    try {
        bank.withdraw(500);
        bank.withdraw(500);
        bank.withdraw(500);
    } catch (PayoutOutOfBoundsException e) {
```

```
        System.out.println(e.getMessage());
    }
}
```

Output:

