Lab12-Assignment

Name: M Bhagyalaxmi   Student id: AF0339449

1)Create a Java program that acts as a simple calculator.

● The program should prompt the user to enter two numbers and an operator (+, -,

*, /).

● Perform the corresponding calculation based on the operator.

● Handle potential exceptions, such as division by zero or invalid operator input.

● Display the result or an appropriate error message.

```java
package com.wrapperclass.examples;
import java.util.Scanner;
public class Calculator {
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);

        try {

            System.out.println("Enter the first number: ");
            int num1 = scanner.nextInt();

            System.out.println("Enter the second number: ");
            int num2 = scanner.nextInt();

            System.out.print("Enter the operator (+, -, *, %): ");
            char operator = scanner.next().charAt(0);


            int result;
```

```java
            switch (operator) {
            case '+':
                result = num1 + num2;
                break;
            case '-':
                result = num1 - num2;
                break;
            case '*':
                result = num1 * num2;
                break;
            case '/':
                 result = num1 % num2;
                break;

            default:
                System.out.println("Error " );
                return;
        }
        System.out.println("Result: " + result);

    }
    catch (Exception e) {
        System.out.println("the number cant divided by
Zero");
    }
    finally
    {
    scanner.close();
    }
}
}
```

Output:

```java
 2 import java.util.Scanner;
 3 public class Calculator {
 4    public static void main(String[] args)
 5    {
 6        Scanner scanner = new Scanner(System.in);
 7
 8        try {
 9
10            System.out.println("Enter the first number: ");
11            int num1 = scanner.nextInt();
12
13            System.out.println("Enter the second number: ");
14            int num2 = scanner.nextInt();
15
16            System.out.print("Enter the operator (+, -, *, %)
17            char operator = scanner.next().charAt(0);
18
```

Problems @ Javadoc Declaration Console × Coverage

<terminated> Calculator [Java Application] C:\Users\USER\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20

```
Enter the first number:
20
Enter the second number:
6
Enter the operator (+, -, *, %): +
Result: 26
```