Assignment

Id:AF0342201

Name:G.Mamatha

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.

Program:

```java
package javafiles;
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;
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:

```
Enter the first number:

5
Enter the second number:

10
Enter the operator (+, -, *, %):
*
Result: 50
```

```
Enter the first number:

100
Enter the second number:

10
Enter the operator (+, -, *, %):
%
Error
```