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Main.java

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```
4 }
5
6 // This method now includes exception handling for divide-by-zero
7 public double divide(int x, int y) {
8     try {
9         return x / y;
10    } catch (ArithmeticException e) {
11        System.out.println("Error: Division by zero is not allowed.");
12        return Double.NaN; // Returning NaN to indicate an error
13    }
14 }
15
16 public static void main(String[] args) {
17     Calculator calculator = new Calculator();
18
19     int a = 10;
20     int b = 0;
21
22     // Testing the add method
23     System.out.println("Addition: " + calculator.add(a, b));
24
25     // Testing the divide method with exception handling
26     System.out.println("Division: " + calculator.divide(a, b));
27 }
28 }
29 }
```

Output

Clear

```
java -cp /tmp/k9Z4jwwrYs/Calculator
Addition: 10
ERROR!
Error: Division by zero is not allowed.
Division: NaN

=== Code Execution Successful ===
```

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5

}

6

7

public double divide(int a, int b) {

8

if (b == 0) {

9

throw new ArithmeticException("Division by zero is not allowed.");

10

}

11

return (double) a / b;

12

}

13

}

14

15

public class ShoppingCart {

16

17

public static void main(String[] args) {

18

Calculator calc = new Calculator();

19

int addResult = calc.add(43, 79);

20

System.out.println("Add Result: " + addResult);

21

22

try {

23

double divResult = calc.divide(15, 0);

24

System.out.println("Division Result: " + divResult);

25

} catch (ArithmeticException e) {

26

System.out.println("Error: " + e.getMessage());

27

}

28

}

29

}

30

Output

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java -cp /tmp/jfw0Khr2El/ShoppingCart

Add Result: 122

ERROR!

Error: Division by zero is not allowed.

=== Code Execution Successful ===

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Output

Clear

```
1 public class ExceptionEx1 {
2
3     public static void main(String args[]) {
4
5         int[] nums = {3, 2, 6, 1};
6         badUse(nums);
7     }
8
9     public static void badUse(int[] vals) {
10        int total = 0;
11
12        for (int i = 0; i < vals.length; i++) {
13            try {
14                int index = vals[i];
15                total += vals[index];
16            } catch (ArrayIndexOutOfBoundsException e) {
17                System.out.println("Index " + vals[i] + " is out of bounds.
18                Skipping this index.");
19            }
20        }
21        System.out.println("Total: " + total);
22    }
23 }
```

```
java -cp /tmp/c55fXa1J8y/ExceptionEx1
Index 6 is out of bounds. Skipping this index.
Total: 9

=== Code Execution Successful ===
```

JS

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