

```
1 class Calculator {
2     public int add(int a, int b) {
3         return a + b;
4     }
5
6     public int subtract(int a, int b) {
7         return a - b;
8     }
9
10    public int multiply(int a, int b) {
11        return a * b;
12    }
13
14    public int divide(int a, int b) {
15        if (b == 0) {
16            throw new IllegalArgumentException("Cannot divide by zero");
17        }
18        return a / b;
19    }
20 }
21
22 public class Main {
23     public static void main(String[] args) {
24         Calculator calc = new Calculator();
25
26         System.out.println("Test Add: " + (calc.add(2, 3) == 5));
27         System.out.println("Test Subtract: " + (calc.subtract(5, 3) == 2));
28         System.out.println("Test Multiply: " + (calc.multiply(3, 4) == 12));
29         System.out.println("Test Divide: " + (calc.divide(10, 2) == 5));
30
31         try {
32             calc.divide(5, 0);
33         } catch (IllegalArgumentException e) {
34             System.out.println("Test Divide by Zero: Passed");
35         }
36     }
37 }
```

Output:

```
Test Add: true
Test Subtract: true
Test Multiply: true
Test Divide: true
Test Divide by Zero: Passed
```