**Exercise 2: Writing Basic JUnit Tests**

**Code:**

*Calculator.java Class: -*

package practice.cog;  
  
public class Calculator {  
 public int add(int a,int b){  
 return a+b;  
 }  
 public int subtract(int a,int b){  
 return a-b;  
 }  
 public int multiply(int a,int b){  
 return a\*b;  
 }  
 public int divide(int a,int b){  
 if(b==0) throw new IllegalArgumentException("Cannot divide by zero");  
 return a/b;  
 }  
}

*CalculatorTest.java Class: -*

package practice.cog;  
import org.junit.Test;  
  
import static org.junit.Assert.*assertEquals*;  
  
public class CalculatorTest{  
 @Test  
 public void addTest() {  
 Calculator calc = new Calculator();  
 *assertEquals*(5, calc.add(2,3));  
 }  
  
 @Test  
 public void subtractTest(){  
 Calculator calc=new Calculator();  
 *assertEquals*(1,calc.subtract(4,3));  
 }  
  
 @Test  
 public void multiplyTest(){  
 Calculator calc=new Calculator();  
 *assertEquals*(6,calc.multiply(2,3));  
 }  
  
 @Test(expected = IllegalArgumentException.class)  
 public void divideByZeroTest(){  
 Calculator calc=new Calculator();  
 calc.divide(5,0);  
 }  
  
 @Test  
 public void divide(){  
 Calculator calc=new Calculator();  
 *assertEquals*(5,calc.divide(10,2));  
 }  
}

**Output:**

A screenshot of a computer

AI-generated content may be incorrect.