File 1:

package src1;

public class MathUtil {

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;

}

}

File 2:

package src1;

import org.junit.Test;

import static org.junit.Assert.\*;

public class MathUtilsTest {

MathUtil math = new MathUtil();

*@Test*

public void testAdd() {

*assertEquals*(5, math.add(2, 3));

}

*@Test*

public void testSubtract() {

*assertEquals*(1, math.subtract(4, 3));

}

*@Test*

public void testMultiply() {

*assertEquals*(12, math.multiply(3, 4));

}

*@Test*

public void testDivide() {

*assertEquals*(2, math.divide(10, 5));

}

*@Test*(expected = IllegalArgumentException.class)

public void testDivideByZero() {

math.divide(10, 0); // Should throw exception

}

}

Output