**Exercise 2: Writing Basic JUnit Tests**

**Scenario:**

You need to write basic JUnit tests for a simple Java class.

**Code:**

**MathUtils.java**

package com.example;

public class MathUtils {

public int square(int num) {

return num \* num;

}

public int cube(int num) {

return num \* num \* num;

}

public boolean isEven(int num) {

return num % 2 == 0;

}

}

**MathUtilsTest.java**

package com.example;

import org.junit.Test;

import static org.junit.Assert.\*;

public class MathUtilsTest {

@Test

public void testSquare() {

MathUtils mu = new MathUtils();

assertEquals(25, mu.square(5));

assertEquals(0, mu.square(0));

}

@Test

public void testCube() {

MathUtils mu = new MathUtils();

assertEquals(27, mu.cube(3));

assertEquals(0, mu.cube(0));

}

@Test

public void testIsEven() {

MathUtils mu = new MathUtils();

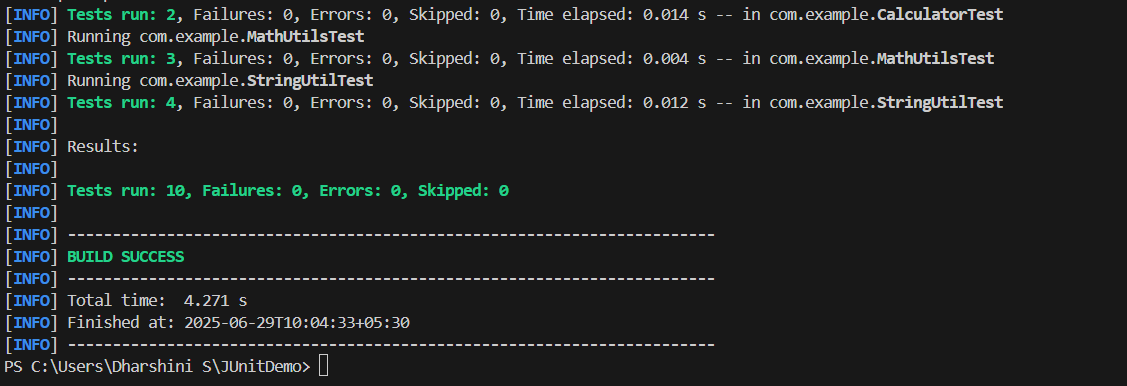
assertTrue(mu.isEven(4));

assertFalse(mu.isEven(7));

}

}

**Output:**

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