Set up a standalone project to do unit testing of the user authentication class which is used in the main web application. The objective is to create a JUnit class that will test all aspects of the authentication class.

//MyMath.java

package com.in28minutes.junit;

public class MyMath {

int sum(int[] numbers) {

int sum = 0;

for (int i : numbers) {

sum += i;

}

return sum;

}

}

//AssertTest.java

package com.in28minutes.junit;

import static org.junit.Assert.assertEquals;

import static org.junit.Assert.assertTrue;

import org.junit.Test;

public class AssertTest {

@Test

public void test() {

boolean condn = true;

assertEquals(true, condn);

assertTrue(condn);

// assertFalse(condn);

}

}

//MyMathTest.java

**Important annotations**

* @Before @After annotations
* @BeforeClass @AfterClass annotations

package com.in28minutes.junit;

import static org.junit.Assert.assertEquals;

import org.junit.After;

import org.junit.AfterClass;

import org.junit.Before;

import org.junit.BeforeClass;

import org.junit.Test;

public class MyMathTest {

MyMath myMath = new MyMath();

@Before

public void before() {

System.out.println("Before");

}

@After

public void after() {

System.out.println("After");

}

@BeforeClass

public static void beforeClass() {

System.out.println("Before Class");

}

@AfterClass

public static void afterClass() {

System.out.println("After Class");

}

// MyMath.sum

// 1,2,3 => 6

@Test

public void sum\_with3numbers() {

System.out.println("Test1");

assertEquals(6, myMath.sum(new int[] { 1, 2, 3 }));

}

@Test

public void sum\_with1number() {

System.out.println("Test2");

assertEquals(3, myMath.sum(new int[] { 3 }));

}

}