**Exercise 2: Test Suites and Categories**

**Scenario:** You want to group related tests into a test suite and categorize them.

**Calculator.java :-**

package org.example1;  
  
public class Calculator {  
 public int add(int a, int b) {  
 return a + b;  
 }  
}

**EvenChecker.java :-**

package org.example1;  
  
public class EvenChecker {  
 public boolean isEven(int number) {  
 return number % 2 == 0;  
 }  
}

**CalculatorTest.java :-**

package org.example1;  
  
import org.junit.jupiter.api.Test;  
import static org.junit.jupiter.api.Assertions.*assertEquals*;  
  
public class CalculatorTest {  
 Calculator calc = new Calculator();  
  
 @Test  
 void testAdd() {  
 *assertEquals*(5, calc.add(2, 3));  
 }  
}

**EvenCheckerTest.java :-**

package org.example1;  
  
import org.junit.jupiter.params.ParameterizedTest;  
import org.junit.jupiter.params.provider.ValueSource;  
import static org.junit.jupiter.api.Assertions.*assertTrue*;  
  
public class EvenCheckerTest {  
 EvenChecker checker = new EvenChecker();  
  
 @ParameterizedTest  
 @ValueSource(ints = {2, 4, 6})  
 void testIsEven(int number) {  
 *assertTrue*(checker.isEven(number));  
 }  
}

**AllTests.java :-**

package org.example1;  
  
import org.junit.platform.suite.api.SelectClasses;  
import org.junit.platform.suite.api.Suite;  
  
@Suite  
@SelectClasses({  
 CalculatorTest.class,  
 EvenCheckerTest.class  
})  
public class AllTests {  
  
}

**pom.xml :-**

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>org.example1</groupId>  
 <artifactId>Test\_Suite</artifactId>  
 <version>1.0-SNAPSHOT</version>  
 <packaging>jar</packaging>  
  
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 </properties>  
  
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 <dependency>  
 <groupId>org.junit.jupiter</groupId>  
 <artifactId>junit-jupiter</artifactId>  
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 <scope>test</scope>  
 </dependency>  
 <dependency>  
 <groupId>org.junit.platform</groupId>  
 <artifactId>junit-platform-suite</artifactId>  
 <version>1.10.0</version>  
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 <build>  
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 <plugin>  
 <groupId>org.apache.maven.plugins</groupId>  
 <artifactId>maven-surefire-plugin</artifactId>  
 <version>3.0.0</version>  
 </plugin>  
 </plugins>  
 </build>  
  
</project>

Output :-

