**WEEK-2**

**TDD Using Junit5 and Mockito: JUnit\_Basic Testing Exercises:**

**Exercise-1: Setting Up JUnit:**

**1.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>testpkg</groupId>

<artifactId>JUnitDemo</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>

**2. Calculator.java:**

package testpkg;

public class Calculator {

    public int add(int a, int b) {

        return a + b;

    }

}

**3.CalculatorTest.java:**

package testpkg;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

    @Test

    public void testAddition() {

        Calculator calc = new Calculator();

        int result = calc.add(3, 4);

        assertEquals(7, result);

    }

}

