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**WEEK 2: JUNIT\_BASIC TESTING EXERCISES**

Exercise 1: Setting Up JUnit

Scenario:

You need to set up JUnit in your Java project to start writing unit tests.

Steps:

1. Create a new Java project in your IDE (e.g., IntelliJ IDEA, Eclipse).

2. Add JUnit dependency to your project. If you are using Maven, add the following to your

pom.xml:

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

3. Create a new test class in your project  
  
SAMPLE CODE:  
  
import org.junit.Test;

import static org.junit.Assert.\*;

public class SetupVerificationTest {

    @Test

    public void testJUnitIsWorking() {

        System.out.println("JUnit is properly configured!");

        assertTrue(true); // Simple passing assertion

    }

    @Test

    public void testBasicMath() {

        assertEquals(4, 2 + 2); // Verify basic calculations

    }

    @Test

    public void testStringOperations() {

        String hello = "Hello";

        assertNotNull(hello);

        assertEquals("Hello", hello);

    }

}

<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.example</groupId>

<artifactId>Junit</artifactId>

<version>1.0-SNAPSHOT</version>

<properties>

<maven.compiler.source>23</maven.compiler.source>

<maven.compiler.target>23</maven.compiler.target>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

</properties>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>

OUTPUT:  
  
