**Phase-3 Practice Project: Assisted Practice -**

**4.Write a program to demonstrate nested and repeated tests**

**Source Code:**

**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 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com</groupId>

<artifactId>junit-tests</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- https://mvnrepository.com/artifact/org.junit.jupiter/junit-jupiter-engine -->

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-engine</artifactId>

<version>5.9.3</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.junit.platform/junit-platform-runner -->

<dependency>

<groupId>org.junit.platform</groupId>

<artifactId>junit-platform-runner</artifactId>

<version>1.9.3</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-war-plugin</artifactId>

<version>3.3.1</version>

</plugin>

</plugins>

<finalName>JunitDemo</finalName>

</build>

</project>

**NestedTests.java:**

**package** com;

**import** **static** org.junit.jupiter.api.Assertions.\*;

**import** org.junit.jupiter.api.Assertions;

**import** org.junit.jupiter.api.BeforeEach;

**import** org.junit.jupiter.api.DisplayName;

**import** org.junit.jupiter.api.Nested;

**import** org.junit.jupiter.api.RepeatedTest;

**import** org.junit.jupiter.api.Test;

**class** NestedTests {

@BeforeEach

**public** **void** init() {

System.***out***.println("Init on outer invoked");

}

@Nested

**class** NestedClass {

@BeforeEach

**public** **void** init() {

System.***out***.println("Init on inner invoked");

}

@Test

**public** **void** test1() {

System.***out***.println("Test 1 for class NestedClass");

}

@Test

**public** **void** test2() {

System.***out***.println("Test 2 for class NestedClass");

}

@Test

@RepeatedTest(10)

**public** **void** test3() {

**int** a = 5;

**int** b = 5;

Assertions.*assertEquals*(a,b);

System.***out***.println("Repeated Test for class NestedClass");

}

}

}

**OUTPUT:**



