JUNIT Testing

JUNIT5 Framework use it

Unit Testing Framework (JUNIT5) ?

Steps :

* Prepare (setup a Test Environment, write test method)
* Provide testing input
* Run the test
* Provide expected output
* Perform assertion (verify the result)
* Report test results (alert developer if test is failed or passed)

JUNIT5 Architecture :

JUNIT5 is not JUNIT4 \_ new features :

API

Jupitor

Vintage

Platform

Create the Maven Project :

First go to file 🡪 others (ctrl + N) 🡪Inside Maven select Maven Project 🡪 Create a simple project 🡪 Then create a new maven project 🡪 write the group id , Artifact id & last finish.

Then add the dependencies in our project for that purpose go through the <https://mvnrepository.com/artifact/junit/junit> this url 🡪 then click the testing framework & tool 🡪 then select the Junit 🡪 & select the any version 🡪 then select the maven repository & add our pom.xml file.

<dependencies>

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

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

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Create the class write the package & class name. then write method –

Code :

**package** com.kiran.learning;

**public** **class** Calc {

**public** **int** divide(**int** num1, **int** num2)

{

**return** num1/num2;

}

}

Then write the test class for that purpose select the current class file right click 🡪 New 🡪 select Junit Test case 🡪 write test.java file.

Code :

package com.kiran.learning;

import static org.junit.Assert.\*;

import org.junit.Test;

public class CalcTest {

@Test

public void test() {

// System.out.println("This is my first test case example..");

//assertEquals("Kiran","Kiran");

Calc c = new Calc();

int r=c.divide(10, 5);

int expectedResult=2;

assertEquals(expectedResult,r);

System.out.println("Successfully Test the code..");

}

}