Junit Assignment!

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After_All.java

```java
package Jagadeesh;

import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.BeforeAll;

import org.junit.jupiter.api.Test;

public class After_All {

    @AfterAll
    static void greetAfterAll() {
        System.out.println("Good Morning !");
    }

    @Test
    void greet() {
        System.out.println("Ramesh");
    }

    @Test
    void greet1() {
        System.out.println("Suresh");
    }

    @Test
    void greet2() {
        System.out.println("Raju");
    }

    @BeforeAll

    static void greetBeforeAll() {
        System.out.println("Hello");
            }

    }
```

Console
<terminated> After_All [JUnit] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-for-ec
```
Hello
Suresh
Raju
Ramesh
Good Morning !
```

After_Each.java

```java
package Jagadeesh;

import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.Test;

public class After_Each {

    @AfterEach
    void greetAfterEach() {
        System.out.println("Good Morning !");
        }

    @Test
    void greet() {
        System.out.println("Ramesh");
    }

    @Test
    void greet1() {
        System.out.println("Suresh");
    }

    @Test
    void greet2() {
        System.out.println("Raju");
    }

    @BeforeAll

    static void greetBeforeAll() {
        System.out.println("Hello");
    }

}
```

Console
<terminated> After_Each [JUnit] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-for-e
```
Hello
Suresh
Good Morning !
Raju
Good Morning !
Ramesh
Good Morning !
```

Before_All.java

```java
package Jagadeesh;

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

public class Before_Each {

    @Test
    void greet() {
        System.out.println("Ramesh");
    }

    @Test
    void greet1() {
        System.out.println("Suresh");
    }

    @Test
    void greet2() {
        System.out.println("Raju");
    }

    @BeforeAll
    static void greetBeforeAll() {
        System.out.println("Hello");
    }
}
```

Console
<terminated> Before_All [JUnit] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-for-e
```
Hello
Suresh
Raju
Ramesh
```

Before_Each.java

```java
package Jagadeesh;

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

public class Before_Each {

    @Test
    void greet() {
        System.out.println("Ramesh");
    }

    @Test
    void greet1() {
        System.out.println("Suresh");
    }

    @Test
    void greet2() {
        System.out.println("Raju");
    }

    @BeforeEach
    void greetBeforeAll() {
        System.out.println("Hello");
    }
}
```

EvenCheckerTest.java

```java
package Jagadeesh;

import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertNotNull;
import static org.junit.jupiter.api.Assertions.assertTrue;
import org.junit.jupiter.api.DisplayName;
import org.junit.jupiter.api.Test;

public class EvenCheckerTest {

    public boolean isEven(int a) {
        return a % 2 == 0;
    }

    @Test
    @DisplayName("Test even numbers")
    void testEvenNumber() {
        EvenCheckerTest result = new EvenCheckerTest();
        assertTrue(result.isEven(8));
        assertFalse(result.isEven(7));
    }

    @Test
    void testObj() {
        String str = new String("Hello");
        assertNotNull(str);
    }
}
```

Junit_Sample.java

```java
package Jagadeesh;

import static org.junit.Assert.assertEquals;
import static org.junit.jupiter.api.Assertions.*;

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

class Junit_Sample {

    @Test
    @DisplayName("Demo")

    void test() {
        System.out.println("Hello");
    }

    @Test

    void test2() {
        int av = 5;
        int ev = 5;
        int uv = 3;
        assertEquals(av, ev);
        assertNotEquals(uv, av);
    }
}
```

Package Explorer / JUnit
Finished after 0.095 seconds
Runs: 2/2   Errors: 0   Failures: 0
> Junit_Sample [Runner: JUnit 5] (0.000 s)

Console
<terminated> Junit_Sample [JUnit] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-fo
Hello

Parameters_Test.java

```java
package Jagadeesh;
import static org.junit.Assert.assertNotNull;
import static org.junit.Assert.assertTrue;

import org.junit.jupiter.params.ParameterizedTest;
import org.junit.jupiter.params.provider.CsvFileSource;
import org.junit.jupiter.params.provider.EnumSource;

public class Parameters_Test{

    @ParameterizedTest
    @CsvFileSource(resources="./Sample.txt")
    void testUsersfromFile(String name, int age) {
        assertNotNull(name);
        assertTrue(age>0);
    }

    @ParameterizedTest
    @EnumSource(Status.class)
    void testSatausNotNull(Status status)
    {
        assertNotNull(status);
    }enum Status
    {
        ACTIVE,
        INACTIVE
    }
}
```

Package Explorer / JUnit
Finished after 0.288 seconds
Runs: 6/6   Errors: 0   Failures: 0
> Parameters_Test [Runner: JUnit 5] (0.037 s)
> testUsersfromFile(String, int) (0.003 s)
> testSatausNotNull(Status) (0.004 s)

Sample.txt
1 name, 20
2 jagadeesh, 23
3 Ramu, 25
4 Somu, 30

Subtract2NumberTest.java

```java
package Jagadeesh;

import static org.junit.jupiter.api.Assertions.assertEquals;

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

class Subtract2Number {
    int subtract2Num(int a, int b) {
        return a - b;
    }
}

public class Subtract2NumberTest {

    @Test
    @DisplayName("Subtracting 2 numbers")
    void test2NumbersSubtracting() {
        Subtract2Number subtract = new Subtract2Number();
        int actualSubtraction = subtract.subtract2Num(2, 3);
        int expectedValue = -1;
        assertEquals(expectedValue, actualSubtraction);
    }
}
```

JUnit: Finished after 0.098 seconds — Runs: 1/1, Errors: 0, Failures: 0
Subtract2NumberTest [Runner: JUnit 5] (0.000 s)

TestSuite_Ex1.java

```java
package Jagadeesh;

import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.Test;
import org.junit.platform.suite.api.SelectClasses;
import org.junit.platform.suite.api.Suite;

class TestSuite_Ex{

    @Test
    void greet() {
        System.out.println("Ramesh");
    }

    @Test
    void greet1() {
        System.out.println("Suresh");
    }

    @Test
    void greet2() {
        System.out.println("Raju");
    }

    @BeforeAll
    static void greetBeforeAll() {
        System.out.println("Hello");
    }
}

@Suite
@SelectClasses({
    TestSuite_Ex.class
})

public class TestSuite_Ex1 {
}
```

JUnit: Finished after 0.108 seconds — Runs: 3/3, Errors: 0, Failures: 0
TestSuite_Ex1 [Runner: JUnit 5] (0.000 s)

Console:
```
<terminated> TestSuite_Ex1 [JUnit] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-fo
Hello
Suresh
Raju
Ramesh
```