**Parameterized Tests**

**Writing a code to demonstrate @ParameterizedTest with @ValueSource**

**package** com.app.junitDemo;

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

**import** org.junit.jupiter.params.ParameterizedTest;

**import** org.junit.jupiter.params.provider.EmptySource;

**import** org.junit.jupiter.params.provider.NullAndEmptySource;

**import** org.junit.jupiter.params.provider.NullSource;

**import** org.junit.jupiter.params.provider.ValueSource;

**import** org.junit.platform.commons.util.StringUtils;

**public** **class** ParameterizedDemo1 {

@ParameterizedTest

@ValueSource(strings = {"abc","pqr",""})

@EmptySource

**public** **void** checkblanks(String value)

{

Assertions.*assertTrue*(StringUtils.*isNotBlank*(value));

System.***out***.println(value);

}

@ParameterizedTest(name = "null source")

@NullSource

**public** **void** checkblanks2(String value)

{

Assertions.*assertTrue*(StringUtils.*isBlank*(value)); // input is null or not

System.***out***.println(value);

}

@ParameterizedTest(name = "null and Empty source")

@NullAndEmptySource

**public** **void** checkblanks3(String value)

{

Assertions.*assertTrue*(StringUtils.*isBlank*(value)); // input is null or not

}

@ParameterizedTest(name = "{index} - Run test with arguments = {0}")

@ValueSource(ints = {11,12,13,4,5})

**public** **void** valueSourcedemo(**int** args)

{

System.***out***.println("The integer value is " + args);

}

}

**Writing a code to demonstrate @ParameterizedTest with @EnumSource**

**package** com.app.junitDemo;

**import** org.junit.jupiter.params.ParameterizedTest;

**import** org.junit.jupiter.params.provider.EnumSource;

**public** **class** EnumSourceDemo {

**enum** Values{

***Selenium***, ***Jmeter***, ***Junit*** // values of type Enum

}

@ParameterizedTest(name = "Enum Value {arguments}")

@EnumSource(Values.**class**)

**public** **void** passvaluesEnumSource(Object value)

{

System.***out***.println(value.toString());

}

}

**Writing a code to demonstrate @ParameterizedTest with @MethodSource**

**package** com.app.junitDemo;

**import** java.util.stream.Stream;

**import** org.junit.jupiter.params.ParameterizedTest;

**import** org.junit.jupiter.params.provider.MethodSource;

**public** **class** MethodSourceDemo {

@ParameterizedTest(name = "Method value {arguments}") // this will execute the method

@MethodSource("stringParameters") // this will give the input

**public** **void** getdatafromMethod(String input)

{

System.***out***.println("The value from method is: " + input);

}

**public** **static** Stream<String> stringParameters()

{

**return** Stream.*of*("Monday","tuesday","Wednesday");

}

}

**Writing a code to demonstrate @ParameterizedTest with @CsvSource**

**package** com.app.junitDemo;

**import** org.junit.jupiter.params.ParameterizedTest;

**import** org.junit.jupiter.params.provider.CsvSource;

**public** **class** CsvSourceDemo {

@ParameterizedTest(name = "CSV source {arguments}")

@CsvSource({

"Audi , 25", // row and column

"BMW , 24",

"Volvo , 45",

"Merc , 50"

})

**public** **void** datafrom\_CSVsource(String car, String quantity)

{

System.***out***.println(car+" : "+quantity);

}

}