Scala | Tuple

Tuple is a collection of elements. Tuples are heterogeneous data structures, i.e., is they can store elements of different data types. A tuple is immutable, unlike an array in scala which is mutable. An example of a tuple storing an integer, a string, and boolean value.

val name = (15, "XYZ", true)
Type of tuple is defined by, the number of the element it contains and datatype of those elements.

For Example:

```scala
// this is tuple of type Tuple3[ Int, String, Boolean ]
val name = (15, "Chandan", true)
```

```scala
// Scala program to access
// element using underscore method

// Creating object
object Mtech_Scala_Tuple
{
        // Main method
        def main(args: Array[String])
        {

                var name = (15, "XYX", true)

                println(name._1) // print 1st element
                println(name._2) // print 2nd element
                println(name._3) // print 3st element
        }
}
```

Scala | Arrays

Array is a special kind of collection in scala. it is a fixed size data structure that stores elements of the same data type. The index of the first element of an array is zero and the last element is the total number of elements minus one. It is a collection of mutable values. It corresponds to arrays(in terms of syntax) in java but at the same time it's different(in terms of functionalities) from java.

Some Important Points:

Scala arrays can be generic. which mean we can have an Array[T], where T is a type parameter or abstract type.

Scala arrays are compatible with Scala sequences – we can pass an Array[T] where a Seq[T] is required.

Scala arrays also support all sequence operations.

```scala
// Scala program to creating an array
// of the string as week days, store
// day values in the weekdays,
// and prints each value.
object Mtech_1D_ARRAY
{
        // Main method
        def main(args: Array[String])
        {
                // allocating memory of 1D Array of string.
                var days = Array("Sunday", "Monday",
"Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" )

                println("Array elements are : ")
                for ( m1 <-days )
                {
                        println(m1 )
                }

        }
}
```