Scala Vector

Vector is a general-purpose, immutable data structure. It provides random access of elements. It is good for large collection of elements.

It extends an abstract class AbstractSeq and IndexedSeq trait.

Scala Vector Example

```
import scala.collection.immutable._

object MainObject{

   def main(args:Array[String]){

      var vector:Vector[Int] = Vector(5,8,3,6,9,4) //Or

      var vector2 = Vector(5,2,6,3)

      var vector3 = Vector.empty

      println(vector)

      println(vector2)

      println(vector3)

   }

}
```

Output:

```
Vector(5, 8, 3, 6, 9, 4)

Vector(5, 2, 6, 3)

Vector(
```

Scala Vector Example

In the following example, we have created a vector. You can also add new element and merge two vectors.

```
import scala.collection.immutable._

object MainObject{

   def main(args:Array[String]){
```

```
        var vector = Vector("Hocky","Cricket","Golf")
        var vector2 = Vector("Swimming")
        print("Vector Elements: ")
        vector.foreach((element:String) => print(element+" "))
        var newVector  = vector :+ "Racing"                    // Adding a new element into vector
        print("\nVector Elements after adding: ")
        newVector.foreach((element:String) => print(element+" "))
        var mergeTwoVector = newVector ++ vector2              // Merging two vector
        print("\nVector Elements after merging: ")
        mergeTwoVector.foreach((element:String) => print(element+" "))
        var reverse = mergeTwoVector.reverse                   // Reversing vector elements
        print("\nVector Elements after reversing: ")
        reverse.foreach((element:String) => print(element+" "))
        var sortedVector = mergeTwoVector.sorted               // Sorting vector elements
        print("\nVector Elements after sorting: ")
        sortedVector.foreach((element:String) => print(element+" "))
    }
}
```

Output:

```
Vector Elements: Hocky Cricket Golf
Vector Elements after adding: Hocky Cricket Golf Racing
Vector Elements after merging: Hocky Cricket Golf Racing Swimming
Vector Elements after reversing: Swimming Racing Golf Cricket Hocky
Vector Elements after sorting: Cricket Golf Hocky Racing Swimming
```