Scala Programming

Name: M Jeyapathy

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Collections:

Ranges-

```
scala> val range=1 to 10
val range: scala.collection.immutable.Range.Inclusive = Range 1 to 10

scala> println(range.last)
10

scala> val range2=1 until 10
val range2: scala.collection.immutable.Range = Range 1 until 10

scala> println(range2.last)
9

scala> val range3=1 until 10 by 3
val range3: scala.collection.immutable.Range = Range 1 until 10 by 3

scala> println(range3.last)
7
```

Lists-

```
scala> var lst=list("b","c","d")
               ^
       error: not found: value list

scala> var lst=List("b","c","d")
var lst: List[String] = List(b, c, d)

scala> print(lst.head)
b
scala> print(lst.tail)
List(c, d)
scala> var lst=List("ab","c","def")
var lst: List[String] = List(ab, c, def)

scala> print(lst.head)
ab
```

Tuples-

```
scala> var tuples=(2*5,"ten",10.0d,10.0f,10.0,(9,"NINE"))
var tuples: (Int, String, Double, Float, Double, (Int, String)) = (10,ten,10.0,10.0,10.0,(9,NINE))

scala> print(tuples_1)
             ^
      error: not found: value tuples_1

scala> print(tuples_1)
             ^
      error: not found: value tuples_1

scala> print(tuples_2)
             ^
      error: not found: value tuples_2

scala> print(tuples._2)
ten
scala> print(tuples._1)
10
```

Arrays-

```
scala> var array=new Array[String](3)
var array: Array[String] = Array(null, null, null)

scala> var at=Array(4,4.7,"Gasai Yuno")
var at: Array[Any] = Array(4, 4.7, Gasai Yuno)

scala> varmat=Array.ofDim[int](3,4)
        ^
      error: not found: value varmat

scala> var mat=Array.ofDim[int](3,4)
                          ^
      error: not found: type int

scala> var mat=Array.ofDim[int](3,4)
                          ^
      error: not found: type int

scala> var mat=Array.ofDim[int](3,4) mat(1)(2)=3
                          ^
      error: not found: type int
                                    ^
      error: Int(1) does not take parameters

scala> var mat=Array.ofDim[int](3,4)
                          ^
      error: not found: type int

scala> var mat=Array.ofDim[Int](3,4)
var mat: Array[Array[Int]] = Array(Array(0, 0, 0, 0), Array(0, 0, 0, 0), Array(0, 0, 0, 0))

scala> mat(1)(2)=3
```