SCALA PROGRAMMING

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Course: AI&DE

Section: A

COLLECTIONS:

Ranges:

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

scala> println(range.last)//10
10

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

scala> println(range2.last)//9
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
7

scala> val range4=1 until 11 by 2
val range4: scala.collection.immutable.Range = Range 1 until 11 by 2

scala> println(range4.last)//10
9

scala> val range5=1 until 11 by 3
val range5: scala.collection.immutable.Range = inexact Range 1 until 11 by 3

scala> println(range5.last)
10
```

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)
10
scala> print(tuples._2)
ten
scala> print(tuples._6._2)
NINE
```

Lists:

```
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 lst2="a"::lst
var lst2: List[String] = List(a, b, c, d)

scala> var l=1::2::3::4::Nil
var l: List[Int] = List(1, 2, 3, 4)

scala> var l2=l::List(5,6)
var l2: List[Any] = List(List(1, 2, 3, 4), 5, 6)

scala> var l3=l:::List(5,6)
var l3: List[Int] = List(1, 2, 3, 4, 5, 6)
```

```
scala> var l4=List("a",5,"9")
var l4: List[Any] = List(a, 5, 9)

scala> var l4=List("a",5,9)
var l4: List[Any] = List(a, 5, 9)

scala> var l5=List("a",5,"o9")
var l5: List[Any] = List(a, 5, o9)

scala> var l5=List("a",5,o9)
                            ^
        error: not found: value o9
```

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> val mat=Array.ofDim[Int](3,4)
val 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
```