

SCALA PROGRAMMING

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Ques - Run functional commands in Scala command prompt.

VALUES AND TUPLES

```
Command Prompt - scala  X + v
C:\Users\kvsth>scala
Welcome to Scala 2.13.11 (Java HotSpot(TM) 64-Bit Server VM, Java 19.0.2).
Type in expressions for evaluation. Or try :help.

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

scala> val range4 = 1 to 10 by 3
val range4: scala.collection.immutable.Range = Range 1 to 10 by 3

scala> println(range4.last)
10

scala> var tuples = (2*5,"ten",10.0d,10.0f,10.0(9,"Nine"))
           ^
error: Double(10.0) does not take parameters

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._4)
10.0
scala> print(tuples._6._2)
Nin
```

LIST

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

scala> println(lst)
List(b, c, d)

scala> println(lst.head)
b

scala> println(lst.tail)
List(c, d)

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

scala> println(lst2)
List(a, b, c, d)

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

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

scala> println(l)
List(1, 2, 3, 4)

scala> var lst1=l::List(5,6)
var lst1: List[Any] = List(List(1, 2, 3, 4), 5, 6)

scala> println(lst1)
List(List(1, 2, 3, 4), 5, 6)
```

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
```