Scala Practice

<https://www.tutorialspoint.com/scala/>

<https://docs.scala-lang.org/learn.html>

var factor = 3

val multiplier = (i:Int) => i \* factor

println(multiplier(4))

val multiplier = (i:Int, m:int) => i \* m

println(multiplier(4))

<https://scalafiddle.io/>

[https://scastie.scala-lang.org/](https://scastie.scala-lang.org/mtOzExoFS6yxFKtlFVSfPw)

object Demo {

def main(args: Array[String]) {

println( "multiplier(1) value = " + multiplier(1) )

println( "multiplier(2) value = " + multiplier(2) )

}

var factor = 3

val multiplier = (i:Int) => i \* factor

}

object Demo {  
 val greeting: String = "Hello, world!"  
  
 def main(args: Array[String]) {  
 println( greeting )  
 }  
}

<https://scalafiddle.io/>

val height = 1.9d  
val name = "James"  
println(f"$name%s is $height%2.2f meters tall") //James is 1.90 meters tall

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var z = new Array[String](3)

z(0) = "Zara"; z(1) = "Nuha"; z(4/2) = "Ayan"

println(z(0))

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var myList = Array(1.9, 2.9, 3.4, 3.5)  
   
 // Print all the array elements  
 for ( x <- myList ) {  
 println( x )  
 }  
  
 // Summing all elements  
 var total = 0.0;  
   
 for ( i <- 0 to (myList.length - 1)) {  
 total += myList(i);  
 }  
 println("Total is " + total);  
  
 // Finding the largest element  
 var max = myList(0);  
   
 for ( i <- 1 to (myList.length - 1) ) {  
 if (myList(i) > max) max = myList(i);  
 }  
   
 println("Max is " + max);  
 }

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import Array.\_  
  
object Demo {  
 def main(args: Array[String]) {  
 var myMatrix = ofDim[Int](3,3)  
   
 // build a matrix  
 for (i <- 0 to 2) {  
 for ( j <- 0 to 2) {  
 myMatrix(i)(j) = j;  
 }  
 }  
   
 // Print two dimensional array  
 for (i <- 0 to 2) {  
 for ( j <- 0 to 2) {  
 print(" " + myMatrix(i)(j));  
 }  
 println();  
 }  
 }  
}

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<https://www.tutorialspoint.com/scala/scala_maps.htm>

// Empty hash table whose keys are strings and values are integers:

var A:Map[Char,Int] = Map()

// A map with keys and values.

val colors = Map("red" -> "#FF0000", "azure" -> "#F0FFFF")

println (colors("red"))

<https://www.scala-lang.org/old/sites/default/files/linuxsoft_archives/docu/files/ScalaByExample.pdf>

Collections on command prompt:

https://www.cs.helsinki.fi/u/wikla/OTS/Sisalto/examples/html/ch17.html

Understand all collections

<https://www.tutorialspoint.com/scala/scala_collections.htm>