https://docs.scala-lang.org/tutorials/tour/basics.html.html

## **Main Method**

The main method is an entry point of a program. The Java Virtual Machine requires a main method to be named main and take one argument, an array of strings.

Using an object, you can define a main method as follows:

object Main {

def main(args: Array[String]): Unit =

println("Hello, Scala developer!")

}

<https://docs.scala-lang.org/tutorials/tour/classes.html.html>

class Point(var x: Int, var y: Int) {

def move(dx: Int, dy: Int): Unit = {

x = x + dx

y = y + dy

}

override def toString: String =

s"($x, $y)"

}

val point1 = new Point(2, 3)

point1.x // 2

println(point1) // prints (x, y)

Functional Code:

val addOne = (x: Int) => x + 1

println(addOne(1)) // 2

val add = (x: Int, y: Int) => x + y

println(add(1, 2)) // 3

val getTheAnswer = () => 42

println(getTheAnswer()) // 42

Classes:

object IdFactory {

private var counter = 0

def create(): Int = {

counter += 1

counter

}

}

val newId: Int = IdFactory.create()

println(newId) // 1

val newerId: Int = IdFactory.create()

println(newerId) // 2

Loop Scala:

object Demo {  
 def main(args: Array[String]) {  
 var a = 0;  
   
 // for loop execution with a range  
 for( a <- 1 to 10){  
 println( "Value of a: " + a );  
 }  
 }  
}

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

object Demo {  
 def main(args: Array[String]) {  
 var x = 10;  
  
 if( x < 20 ){  
 println("This is if statement");  
 }  
 }  
}

object Demo {  
 def main(args: Array[String]) {  
 println( "Returned Value : " + addInt(5,7) );  
 }  
   
 def addInt( a:Int, b:Int ) : Int = {  
 var sum:Int = 0  
 sum = a + b  
  
 return sum  
 }  
}

Array play: https://www.tutorialspoint.com/scala/scala\_arrays.htm

object Demo {  
 def main(args: Array[String]) {  
 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);  
 }  
}

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();  
 }  
 }  
}