

Instituto Tecnológico de Tijuana

Nombre de Facultad

Ingeniería Informática



Proyecto / Tarea / Practica:

Práctica 2

Materia:

Datos Masivos

Facilitador:

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Alumnos:

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Fecha:

Tijuana Baja California a 06 de 03 2022

Code

```
'1- Algorithm calculating the radius of a circle'
scala> val circulo = 12
circulo: Int = 12

scala> val pi= 2*3.1416
pi: Double = 6.2832

scala> val rad = circulo/pi
rad: Double = 1.9098548510313216

scala> println (rad)
1.9098548510313216

'2- Algorithm to know if a number is prime or not'
def isPrime1(n: Int): Boolean = ! ((2 until n-1) exists (n % _ == 0))

'3- Im writing a tweet using interpolation'
scala> val bird="tweet"
bird: String = tweet

scala> val interpolate="im writing a "+ bird
interpolate: String = im writing a tweet

'4- slicing hi luke,im your father'
scala> val message="hi luke,im your father!"
message: String = hi luke,im your father!

scala> message slice (5,11)
res0: String = "ke,im "

'6- Tuple and returning a value'
scala> val x=List (2,4,5,1,2,3,3,3.1416,23)
x: List[Double] = List(2.0, 4.0, 5.0, 1.0, 2.0, 3.0, 3.0, 3.1416, 23.0)

scala> x (6)
res1: Double = 3.0

scala> x (7)
res2: Double = 3.1416
```

1-

```

Welcome to
  ____ _
 / ___ \| | | |
| |   \| |_| |
| |___| |  __/
 \____|_|_|_|
          version 3.2.1

Using Scala version 2.12.15 (Java HotSpot(TM) 64-Bit Server VM, Java 17.0.2)
Type in expressions to have them evaluated.
Type :help for more information.

scala> val circulo = 12
circulo: Int = 12

scala> val pi= 2*3.1416
pi: Double = 6.2832

scala> val rad = circulo/pi
rad: Double = 1.9098548510313216

scala> printIn (rad)
<console>:19: error: not found: value printIn
    printIn (rad)
    ^

scala> println (rad)
1.9098548510313216

scala>

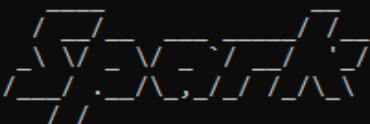
```

2-

```
scala> def isPrime1(n: Int): Boolean = ! ((2 until n-1) exists (n % _ == 0))
isPrime1: (n: Int)Boolean

scala>
```

3-

```
Welcome to  
 version 3.2.1  
Using Scala version 2.12.15 (Java HotSpot(TM) 64-Bit Server VM, Java 17.0.2)  
Type in expressions to have them evaluated.  
Type :help for more information.  
  
scala> val bird="tweet"  
bird: String = tweet  
  
scala> val interpolate="im writing a "+ bird  
interpolate: String = im writing a tweet  
  
scala>
```

4-

```
scala> val message="hi luke,im your father!"
message: String = hi luke,im your father!

scala> message slice (5,11)
res0: String = "ke,im "

scala>
```

5-

The keywords `var` and `val` both are used to assign memory to variables at the running only. The difference is in the mutability of variables that are initialized using these keywords.

var keyword initializes variables that are mutable, and the val keyword initializes variables that are immutable.

6-

```
scala> val x=list (2,4,5,1,2,3,3,3.1416,23)
<console>:17: error: not found: value list
      val x=list (2,4,5,1,2,3,3,3.1416,23)
          ^

scala> val x=List (2,4,5,1,2,3,3,3.1416,23)
x: List[Double] = List(2.0, 4.0, 5.0, 1.0, 2.0, 3.0, 3.0, 3.1416, 23.0)

scala> x (6)
res1: Double = 3.0

scala> x (7)
res2: Double = 3.1416

scala>
```