 MONLAU FORMACIÓ PROFESSIONAL	0485 Programación	
	RA: RA1	
Daniel Garcia Brun		
Práctica N.º: RA0.1.4	Scanner	

Exercise 1:

Adapt the code from exercise 1 of practice 2 so that instead of assigning the integer values 144 and 999 to the variables x and y respectively, the program asks for these values from the user. The user will be able to input any value. Then, display on screen the values entered, the sum, subtraction, division, and multiplication.

Daniel García Brun

```

/* @author danielgarbru
 */
public class Ejercicio1 {

    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {
        System.out.println("Introduce un numero: ");
        double x=sc.nextDouble();

        System.out.println("Introduce un segundo numero: ");
        double y=sc.nextDouble();

        System.out.println("La suma de " + x + " + " + y + " es igual a: " + (x + y));
        System.out.println("La resta de " + x + " - " + y + " es igual a: " + (x - y));
        System.out.println("La multiplicacion de " + x + " X " + y + " es igual a: " + (x * y));
        System.out.println("La multiplicacion de " + x + " / " + y + " es igual a: " + (x / y));
    }
}


```

ut - Practica 4 (run) #3 ×

```

Introduce un numero:
7
Introduce un segundo numero:
29
La suma de 7.0 + 29.0 es igual a: 36.0
La resta de 7.0 - 29.0 es igual a: -22.0
La multiplicacion de 7.0 X 29.0 es igual a: 203.0
La multiplicacion de 7.0 / 29.0 es igual a: 0.2413793103448276
BUILD SUCCESSFUL (total time: 8 seconds)

```



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Exercise 2:

Adapt exercise 2 from practice 2 so that instead of assigning a fixed name to the variable 'name', the program asks for the user's name, then assign your full name. Display the value entered on screen.

Daniel García Brun

```
import java.util.Scanner;

/**
 *
 * @author danielgarbru
 */
public class Ejercicio2 {


    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {
        System.out.println("Introduce tu nombre: ");
        String nombre = sc.next();

        System.out.println("Tu nombre es: " + nombre);
    }
}

run:
Introduce tu nombre:
Daniel
Tu nombre es: Daniel
BUILD SUCCESSFUL (total time: 3 seconds)
```

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Exercise 3:

Adapt exercise 3 from practice 2 to assign the values for the variables 'name', 'address', and 'phone number' from user input. Display these variable values on the screen.

Daniel García Brun

```

1  import java.util.Scanner;
2
3  /**
4   *
5   * @author danielgarbru
6   */
7  public class Ejercicio3 {
8
9      static Scanner sc = new Scanner(System.in);
10
11      public static void main(String[] args) {
12          System.out.println("Introduce tu nombre: ");
13          String nombre = sc.nextLine();
14          System.out.println("Introduce tu calle: ");
15          String calle = sc.nextLine();
16          System.out.println("Tu nombre es: " + nombre + ", Tu calle es: " + calle);
17      }
18  }

```

Output - Practica 4 (run) #3

```

run:
Introduce tu nombre:
Daniel
Introduce tu calle:
Calle Monlau 10
Tu nombre es: Daniel, Tu calle es: Calle Monlau 10
BUILD SUCCESSFUL (total time: 11 seconds)


```

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Exercise 4:

Adapt exercise 4 from practice 2 so that the currency converter program asks for the currency to which the amount in euros will be converted, the amount in euros, and the exchange rate applied.

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```

    */
    package Ejercicios;

    import java.util.Scanner;

    /**
     *
     * @author danielgarbru
     */
    public class Ejercicio4 {
        static Scanner sc = new Scanner(System.in);
        public static void main(String[] args) {
            System.out.println("Introduce una cantidad de dinero: ");
            double euros=sc.nextDouble();

            System.out.println("El valor de " + euros + " euros en Yenes es: " +(euros * 162.53));
        }
    }

```


Output - Practica 4 (run) #3 ×

```

run:
Introduce una cantidad de dinero:
50
El valor de 50.0 euros en Yenes es: 8126.5
BUILD SUCCESSFUL (total time: 5 seconds)

```

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Exercise 5:

Adapt exercise 5 from practice 2 so that the program that calculates the total of an invoice asks for the taxable base (price without VAT). The VAT value should be declared as a constant.

Daniel García Brun

```

/*
 * @author danielgarbru
 */
public class Ejercicio5 {
    static Scanner sc = new Scanner(System.in);
    static final double iva = 1.21 ;
    public static void main(String [] args) {
        System.out.println("Introduce una cantidad de dinero: ");
        double precioiva=sc.nextDouble();
        double precioiva;
        precioiva = precioiva * iva;
        System.out.println("El precio con iva es: " + precioiva);
    }
}

```


ut - Practica 4 (run) #3 ×

```

run:
Introduce una cantidad de dinero:
10
El precio con iva es: 12.1
BUILD SUCCESSFUL (total time: 5 seconds)

```

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Exercise 6:

Adapt exercise 6 from practice 2 to request the value of the variables of type 'char' and the value of the variable of type 'String'. Display them all together on the same line using a single Java print statement (with one println).

Daniel Garcia Brun

```

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
1  */
2  public class Ejercicio6 {
3  static Scanner sc = new Scanner(System.in);
4  public static void main(String [] args){
5      System.out.println("Introduce una letra");
6      char let1 = (sc.next()).charAt(0);
7      System.out.println("Introduce una palabra");
8      String palabral = sc.next();
9      System.out.println("Introduce una letra");
0      char letra2 = (sc.next()).charAt(0);
1      System.out.println("Introduce una palabra");
2      String palabra2 = sc.next();
3
4      System.out.println(" La primera letra introducida es: " + let1 + " La primera palabra introducida es: " + palabral + " La Segunda le
5  }
6  }

```


Input - Practice 4 (run) #3

```

> a
Introduce una palabra
> agua
Introduce una letra
> b
Introduce una palabra
> hola
La primera letra introducida es: a La primera palabra introducida es: agua La Segunda letra introducida es: b La Segunda palabra introducida es: hola
BUILD SUCCESSFUL (total time: 17 seconds)

```

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Exercise 7:

Adapt exercise 7 from practice 2 to ask for 5 variables of type 'char' through the console. Then create another variable as a string and assign it the concatenation of the previous 5 variables. Finally, display the resulting string on the screen. What issues did you encounter? How did you solve them?

Daniel Garcia Brun

```

10  L  */
11  public class Ejercicio7 {
12      static Scanner sc = new Scanner(System.in);
13  public static void main(String [] args){
14      System.out.println("Introduce una letra");
15      char letra1 =(sc.next()).charAt(0);
16      System.out.println("Introduce una letra");
17      char letra2 =(sc.next()).charAt(0);
18      System.out.println("Introduce una letra");
19      char letra3 =(sc.next()).charAt(0);
20      System.out.println("Introduce una letra");
21      char letra4 =(sc.next()).charAt(0);
22      System.out.println("Introduce una letra");
23      char letra5 =(sc.next()).charAt(0);
24
25      String conjunto = (" " + letra1 + letra2 + letra3 + letra4 + letra5);
26      System.out.println("Los valores introducidos en cadena son: " + conjunto);
27  }
28  }

```

Output - Practica 4 (run) #3 ×

```

a
Introduce una letra
b
Introduce una letra
c
Introduce una letra
d
Introduce una letra
e
Los valores introducidos en cadena son: abcde

```

Daniel Garcia Brun

Exercise 8:

Write a program that calculates the weekly salary of an employee based on the hours worked at a rate of 12 euros per hour.


Daniel García Brun

```
1 package Ejercicios;
2 import java.util.Scanner;
3
4 /**
5  *
6  * @author danielgarbru
7  */
8 public class Ejercicio8 {
9     static Scanner sc = new Scanner(System.in);
10     public static void main(String [] args){
11         double salario;
12         salario = 12;
13         System.out.println("Introduce cuantas horas a la semana trabajas: ");
14         double Horas=sc.nextDouble();
15         System.out.println("Por trabajar " +Horas+ " horas deberias cobrar " + (Horas * salario));
16     }
17 }
```

tput - Practica 4 (run) #3 ×

```
run:
Introduce cuantas horas a la semana trabajas:
12
Por trabajar 12.0 horas deberias cobrar 144.0
BUILD SUCCESSFUL (total time: 3 seconds)
```

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(EXTRA) Write a program that calculates the volume of a cone using the formula
 $V = (1/3)\pi r^2 h$.

Daniel García Brun

```

1 public class Ejercicio9 {
2     static Scanner sc = new Scanner(System.in);
3     static final double pi = 3.14;
4     public static void main(String [] args){
5         System.out.println("Introduce el radio");
6         double radio=sc.nextDouble();
7         System.out.println("Introduce la altura");
8         double altura=sc.nextDouble();
9         double total = (((radio*radio)* altura * pi )/3);
10        System.out.println("El volumen de este cono es: " + total);
11    }
12 }

```

tput - Practica 4 (run) #3 ×

```

run:
Introduce el radio
3
Introduce la altura
12
El volumen de este cono es: 113.04
BUILD SUCCESSFUL (total time: 3 seconds)

```

Daniel García Brun