# Informe sobre el CodeLab

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## PRIMERA TANDA DE EJERCICIOS

## Ejercicios 1.

1

2

3

## Ejercicio 2.

```
fun main() {
    println("I'm")
    println("learning")
    println("Kotlin!")
}

I'm
learning
Kotlin!

Target platform: JVM Running on kotlin v. 1.9.10
```

## Ejercicio 3

```
fun main() {
    println("Monday")
    println("Tuesday")
    println("Wednesday")
    println("Thursday")
    println("Friday")
}

Monday
Tuesday
Wednesday
Thursday
Friday
```

#### Nizan Díaz

## Ejercicio 4

```
fun main() {
    println("Tomorrow is rainy")
}

Tomorrow is rainy
```

## Ejercicio 5

```
fun main() {
    println("There is a chance of snow")
}

There is a chance of snow

X

Target platform: JVM Running on kotlin v. 1.9.10
```

## Ejercicio 6

```
fun main() {
    println("Cloudy")
    println("Partly Cloudy")
    println("Windy")
}

Cloudy
Partly Cloudy
Windy

Target platform: JVM Running on kotlin v. 19.10
```

```
fun main() {
    println("How's the weather today?")
}

How's the weather today?
```

## SEGUNDA TANDA DE EJERCICIOS

PROBLEMAS PRÁCTICOS CONCEPTOS BÁSICOS EJERCICIOS

#### Ejercicio 1.

```
fun main() {
    println("Use the val keyword when the value doesn't change."
    println("Use the var keyword when the value can change.")
    println("When you define a function, you define the paramete println("When you call a function, you pass arguments for the parameter println("When you call a function, you pass arguments for the parameter println("When you call a function, you pass arguments for the parameter println("When you call a function, you pass arguments for the parameter println("When you call a function, you pass arguments for the parameter println("When you call a function, you pass arguments for the parameter println("When you call a function).
```

Use the val keyword when the value doesn't change.
Use the var keyword when the value can change.
When you define a function, you define the parameters that can be when you call a function, you pass arguments for the parameters.

#### Ejercicio 2.

El println que se nos ofrece a corregir presenta una apertura con (, pero sin embargo, su cierre es con ). Además el tipo de comilla de apertura y cierre son distintas.

```
fun main() {
    println("New chat message from a friend")
}
```

New chat message from a friend

#### Ejercicio 3.

Lo que ocurre es que para atribuirle valor a las variables está implementando val cuando esta se emplea cuando esperamos que nuestra variable no cambie, por ello deberíamos de implementar var.

```
fun main() {
    var discountPercentage: Int = 0
    var offer: String = ""
    val item = "Google Chromecast"
    discountPercentage = 20
    offer = "Sale - Up to $discountPercentage% discount on $iter
    println(offer)
}
```

Sale - Up to 20% discount on Google Chromecast! Hurry up!

#### Ejercicio 4

No se realiza la suma inicial debido a que nuestras variables están en formato String en vez de en formato int para que puedan ser operables, no obstante se hace una concatenación de las cadenas.

```
fun main() {
    val numberOfAdults = "20"
    val numberOfKids = "30"
    val total = numberOfAdults + numberOfKids
    println("The total party size is: $total")
}
The total party size is: 2030
```

Para que realice la suma debe de atribuirle valores númericos en vez de valores textuales.

```
fun main() {
   val numberOfAdults = 20
   val numberOfKids = 30
   val total = numberOfAdults + numberOfKids
   println("The total party size is: $total")
}
The total party size is: 50
```

El código proporcionado nos indicará la suma a realizar, pero sin operar dicha suma debido a que totalSalary está sumando en formato cadena de texto.

Para realizar ahora la operación debemos eliminar la cadena de caracteres de totalSalary, consiguiente de esta forma que nos haga la suma de 5000 + 1000, es decir, devolviéndonos 6000.

```
fun main() {
   val baseSalary = 5000
   val bonusAmount = 1000
   val totalSalary = baseSalary + bonusAmount
   println("Congratulations for your bonus! You will receive a
}

or your bonus! You will receive a total of 6000 (additional bonus)
```

Para arregla el código del primer paso creamos una nueva variable result.

```
fun main() {
    val firstNumber = 10
    val secondNumber = 5
    val result = firstNumber + secondNumber
    println("$firstNumber + $secondNumber = $result")
}
```

Paso 2: Implementamos la función add con sus parámetros.

```
fun main() {
    val firstNumber = 10
    val secondNumber = 5
    val thirdNumber = 8

    val result = add(firstNumber, secondNumber)
    val anotherResult = add(firstNumber, thirdNumber)

    println("$firstNumber + $secondNumber = $result")
    println("$firstNumber + $thirdNumber = $anotherResult")
}
fun add(n1 : Int, n2 : Int): Int{
    return n1 + n2
}
// Define add() function below this line
```

```
10 + 5 = 15
10 + 8 = 18
```

Paso 3: Mi función subtract realiza una multiplicación de los números de entrada.

```
fun main() {
     val firstNumber = 10
     val secondNumber = 5
     val thirdNumber = 8
     val result = add(firstNumber, secondNumber)
     val anotherResult = add(firstNumber, thirdNumber)
     val result2 = subtract(firstNumber, secondNumber)
     val anotherResult2 = subtract(firstNumber, thirdNumber)
     println("$firstNumber + $secondNumber = $result")
     println("$firstNumber + $thirdNumber = $anotherResult")
     println("$firstNumber + $secondNumber = $result2")
     println("$firstNumber + $thirdNumber = $anotherResult2")
 fun add (n1 : Int, n2: Int) : Int{
     return n1+n2
 fun subtract (n1 : Int, n2: Int) : Int{
     return n1*n2
 // Define add() function below this line
10 + 5 = 15
10 + 8 = 18
10 + 5 = 50
10 + 8 = 80
                                                        Target platform: JVM R
```

#### Ejercicio 7

Paso 1: Crear la función displayAlertmessage() para que muestre el mensaje que nos indican.

```
fun main() {
    val operatingSystem = "Chrome OS"
    val emailId = "sample@gmail.com"

    println(displayAlertMessage(operatingSystem, emailId))
}
fun displayAlertMessage(n1 : String, n2 : String) : String {
    return "There's a new sign-in request on $n1 for your Google Account $n2"
}
// Define your displayAlertMessage() below this line.
```

There's a new sign-in request on Chrome OS for your Google Account sample@gmail

#### Paso 2:

Hacemos una modificación del código introduciendo en la función displayAlertmessage() un String inicial de displayAlertMessage(operatingSystem: String, emailld: String)

```
fun main() {
     val firstUserEmailId = "user_one@gmail.com"
     // The following line of code assumes that you named your parameter as emai
     // If you named it differently, feel free to update the name.
     println(displayAlertMessage(emailId = firstUserEmailId))
     println()
     val secondUserOperatingSystem = "Windows"
     val secondUserEmailId = "user_two@gmail.com"
     println(displayAlertMessage(secondUserOperatingSystem, secondUserEmailId))
     println()
     val thirdUserOperatingSystem = "Mac OS"
     val thirdUserEmailId = "user_three@gmail.com"
     println(displayAlertMessage(thirdUserOperatingSystem, thirdUserEmailId))
     println()
 fun displayAlertMessage(operatingSystem : String = "Unknow OS", emailId : Stri
     return "There's a new sign-in request on $operatingSystem for your Google
 // Define your displayAlertMessage() below this line.
There's a new sign-in request on Unknow OS for your Google Account user one@gma:
There's a new sign-in request on Windows for your Google Account user two@gmail
```

There's a new sign-in request on Mac OS for your Google Account user\_three@gmail

He modificado las nomenclaturas, sustituyendo las mayúsculas y minúsculas en función a lo aprendido en el codelab.

```
fun main() {
    val steps = 4000
    val caloriesBurned = pedometerStepsToCalories(steps);
    println("Walking $steps steps burns $caloriesBurned calories")
}

fun pedometerStepsToCalories(numberOfSteps: Int): Double {
    val caloriesBurnedForEachStep = 0.04
    val totalCaloriesBurned = numberOfSteps * caloriesBurnedForEachStep
    return totalCaloriesBurned
}
```

#### Ejercicio 9

```
fun main() {
println(comparador(300, 250))
     }

fun comparador(timeSpentToday : Int, timeSpentYesterday: Int) : Boolean {
    return timeSpentToday > timeSpentYesterday
     }

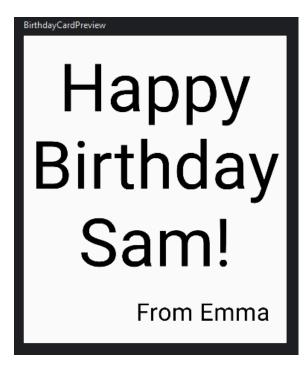
true

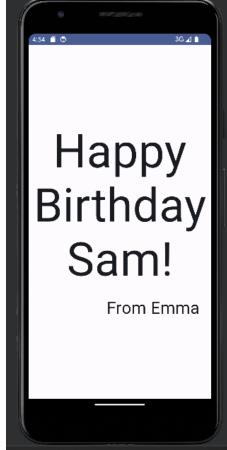
Thrust platform: JVM Running on kodlin v. 1.9.10
```

## EJERCICIO DISEÑO APP TARJETA DE CUMPLEAÑOS

```
Description of the Broader Description of the Description of the Proposition of the Propo
```

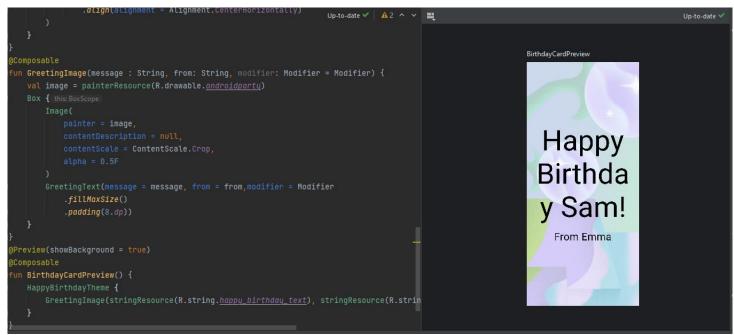
### **DESIGN**



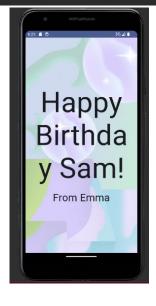


## EJERCICIO DISEÑO APP TARJETA DE CUMPLEAÑOS CON IMAGEN

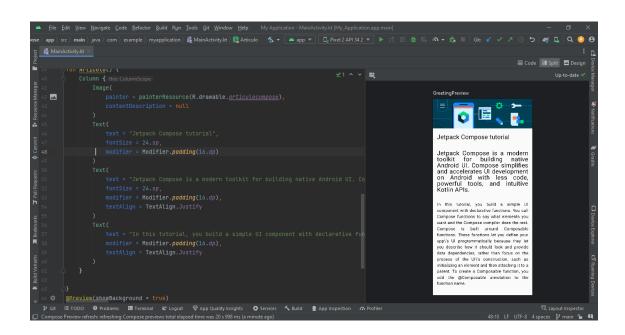
## Funcion GreetingImage



## Función Main implementando GreetingImage



### ARTICULO DE COMPOSE



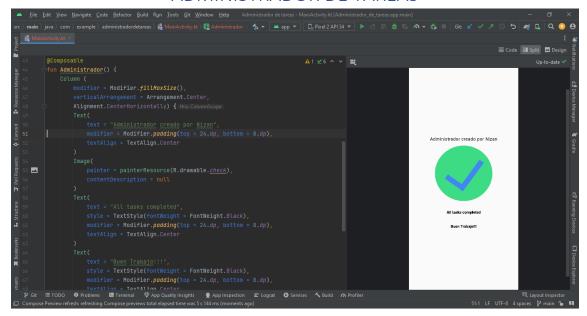


### Jetpack Compose realizado por Nizan

Jetpack Compose is a modern toolkit for building native Android UI. Compose simplifies and accelerates UI development on Android with less code, powerful tools, and intuitive Kotlin APIs.

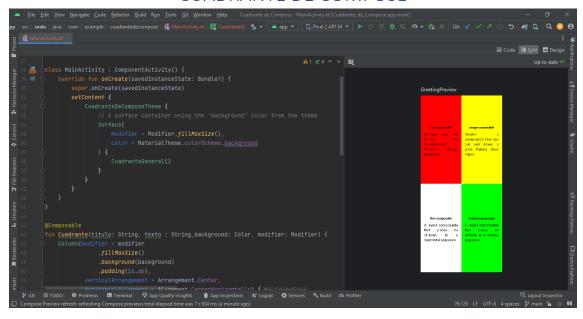
In this tutorial, you build a simple UI component with declarative functions. You call Compose functions to say what elements you want and the Compose compiler does the rest. Compose is built around Composable functions. These functions let you define your app\'s UI programmatically because they let you describe how it should look and provide data dependencies, rather than focus on the process of the UI\'s construction, such as initializing an element and then attaching it to a parent. To

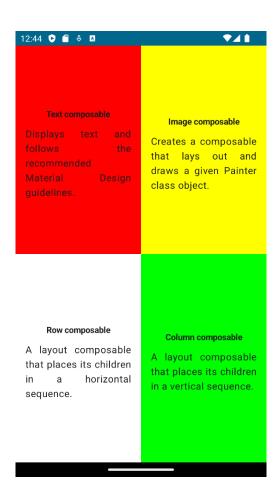
## **ADMINISTRADOR DE TAREAS**



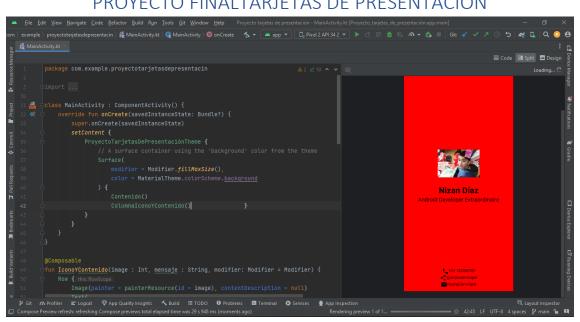


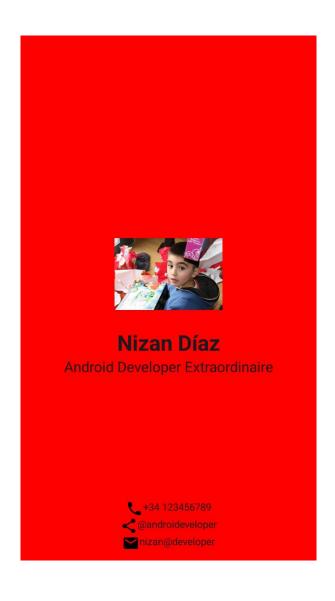
## **CUADRANTE DE COMPOSE**





## PROYECTO FINALTARJETAS DE PRESENTACION





# MODIFICAIONES EXTRAS AL CÓDIGO ESTANDAR

Tarjeta de cumpleaños

