

## PRÀCTICA 4.3 GRADLE

Primerament instal·larem Gradle i comprovarem la versió per verificar l'instal·lació amb el comando **gradle -v**.

Seguidament ens situarem a la carpeta on volem crear el projecte i iniciarem el projecte amb el comando **gradle init**.

I en tipus de projecte, seleccionarem Aplicació.

```
C:\Users\Tamara>cd desktop
C:\Users\Tamara\Desktop>cd 4.3 Gradle
C:\Users\Tamara\Desktop\4.3 Gradle> gradle init
Starting a Gradle Daemon (subsequent builds will be faster)

Select type of build to generate:
  1: Application
  2: Library
  3: Gradle plugin
  4: Basic (build structure only)
Enter selection (default: Application) [1..4]
```

En la selecció de llenguatge triarem Java i en la versió de Java triarem la 21 ja que ens la marca per defecte. Li posarem un nom al nostre projecte.

```
Select implementation language:
  1: Java
  2: Kotlin
  3: Groovy
  4: Scala
  5: C++
  6: Swift
Enter selection (default: Java) [1..6] 1

Enter target Java version (min: 7, default: 21): 21

Project name (default: 4.3 Gradle): 4.3 Gradle

Select application structure:
  1: Single application project
  2: Application and library project
Enter selection (default: Single application project) [1..2]
```

En l'estructura de l'aplicació seleccionarem Single application project que és la configuració per defecte.

Després, en l'apartat de build script DSL seleccionarem Groovy i en el test framework, seleccionarem JUnit 4.

Així hauriem creat ja el nostre projecte.

```
Select application structure:
  1: Single application project
  2: Application and library project
Enter selection (default: Single application project) [1..2] 1

Select build script DSL:
  1: Kotlin
  2: Groovy
Enter selection (default: Kotlin) [1..2] 2

Select test framework:
  1: JUnit 4
  2: TestNG
  3: Spock
  4: JUnit Jupiter
Enter selection (default: JUnit Jupiter) [1..4] 1

Generate build using new APIs and behavior (some features may change in the next minor release)? (default: no) [yes, no]
no

> Task :init
Learn more about Gradle by exploring our Samples at https://docs.gradle.org/8.12.1/samples/sample\_building\_java\_applications.html

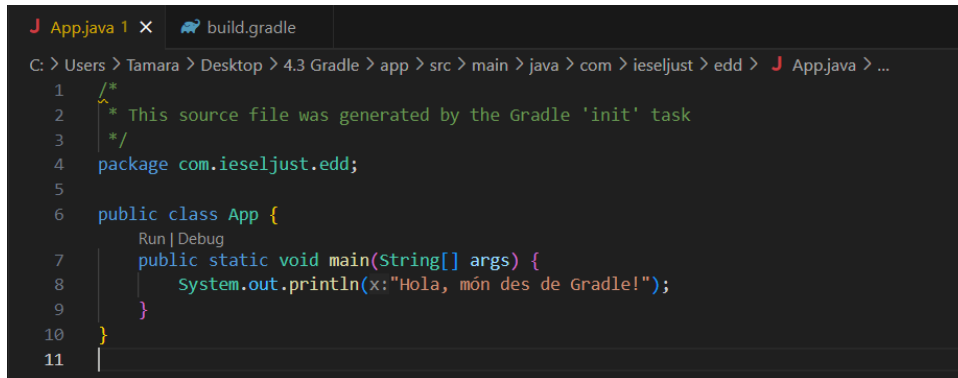
BUILD SUCCESSFUL in 5m 7s
1 actionable task: 1 executed
C:\Users\Tamara\Desktop\4.3 Gradle>
```

Obrim l'arxiu build.gradle i verifiquem el contingut.

```
plugins {
    // Apply the application plugin to add support for building a CLI application in Java.
    id 'application'
}
```


```
application {
    // Define the main class for the application.
    mainClass = 'com.ieseljust.edd'
}
```

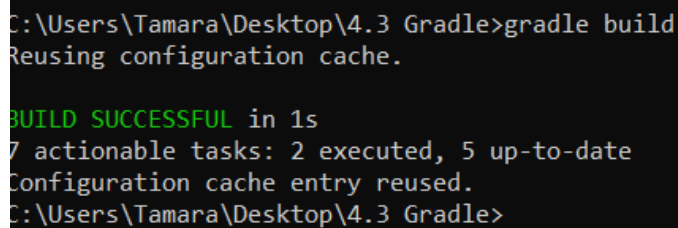
Afegim el codi:



```
J App.java 1 x build.gradle
C: > Users > Tamara > Desktop > 4.3 Gradle > app > src > main > java > com > ieseljust > edd > J App.java > ...
1  /*
2   * This source file was generated by the Gradle 'init' task
3   */
4  package com.ieseljust.edd;
5
6  public class App {
7      Run | Debug
8      public static void main(String[] args) {
9          System.out.println(x:"Hola, món des de Gradle!");
10     }
11 }
```

Compilarem el projecte amb el comando **gradle build**

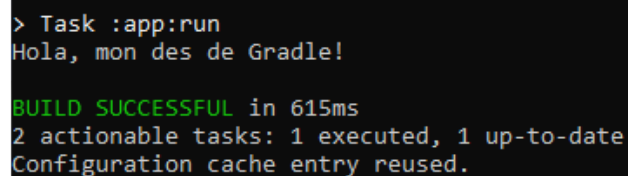
 Símbolo del sistema



```
C:\Users\Tamara\Desktop\4.3 Gradle>gradle build
Reusing configuration cache.

BUILD SUCCESSFUL in 1s
7 actionable tasks: 2 executed, 5 up-to-date
Configuration cache entry reused.
C:\Users\Tamara\Desktop\4.3 Gradle>
```

I, per últim executem amb el comando **gradle run**



```
> Task :app:run
Hola, mon des de Gradle!

BUILD SUCCESSFUL in 615ms
2 actionable tasks: 1 executed, 1 up-to-date
Configuration cache entry reused.
```