

Web Applications 2 - 2023

Lab 1

In order to practice with the syntax and semantics of the kotlin language, solve the following exercises, available on the site <https://exercism.org/tracks/kotlin/exercises>:

- **Matrix**: String manipulation and lambda function usage
- **Flatten array**: List folding and recursion
- **WordCount**: Regular expressions and maps
- **React**: Classes, interfaces, call-backs

Source code for these (and other) exercises is available by cloning the github repository <https://github.com/exercism/kotlin.git>

Single projects are available in the exercises/practice folder.

Each project comes with a set of unit tests that must succeed before moving to the next one. Open the specific exercise folder using IntelliJ IDEA's File → Open menu, read instructions contained in the .docs project folder and complete the provided code in the src/reference/kotlin folder.

Use the Gradle verification test command (either from the command line running `./gradlew test`) or by opening the Gradle command panel, via View → Tool Windows → Gradle menu.

All exercises come with many (50+) solutions provided by people around the world.

Try not to read them: the primary objective of this lab is not having running code, but learning how to write that code and how to test and debug it.

Solutions can be useful afterwards, in order to learn different (and often very elegant) approaches to the problem space.