

OBJECT ORIENTED PRINCIPLES.

Lab01: Java Installation and Basic Syntax.

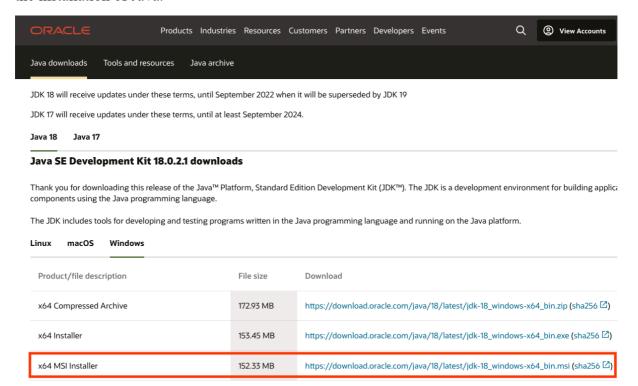
This lab consist of the following sections:

- Install Java Development Kit (JDK)
- Install an Integrated Development Environment (IDE) for Java
- Complete some exercises related to the lecture L02_04: Java Basic Syntax.

INSTALL JAVA JDK.

Please download the Java Development Kit (JDK) for the most recent Java version (Java 18) by using the following link: https://www.oracle.com/java/technologies/downloads/

For Windows users, we recommend downloading the MSI installer, as it will guide you through the installation of Java.

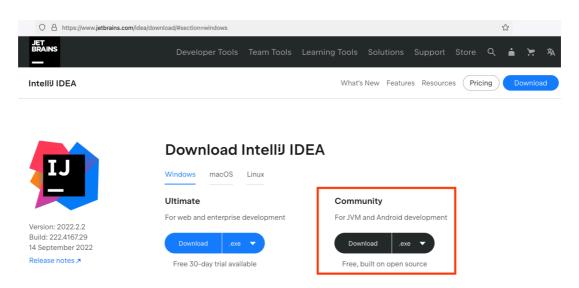


INSTALL JAVA IDE.

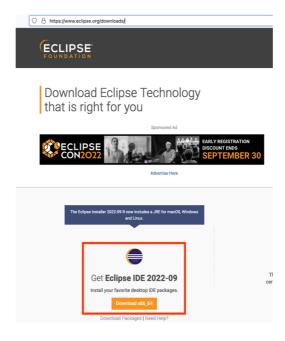
Please download one of the following two Integrated Development Environment (IDE) for developing Java applications: JetBrains IntelliJ or Eclipse.

- JetBrains IntelliJ (Community Edition) will be the one we will be using in the lectures. It follows the same layout as PyCharm for programming in Python. It can be downloaded it by using the following link: https://www.jetbrains.com/idea/download/

For Windows users, we recommend downloading the EXE installer, as it will provide guidance through the installation of IntelliJ.



- Alternatively, Eclipse is another popular IDE for programming in Java. We might use it sometimes in the lectures. It can be downloaded by using the following link: https://www.eclipse.org/downloads/



COMPLETE SOME EXERCISES REGARDING => L02_04. JAVA BASIC SYNTAX

On this section 8 simple Java exercises, related to the content presented in the lecture L02_04. Java Basic Syntax are proposed. Complete the exercises and check if you are obtaining the correct results.

- The folder **src** contains the code of the Java application.
 - MyMain.java => This file contains the class MyMain and the 8 exercises to be completed.
- The folder **javadoc** contains the documentation of the Java code.
 - o MyMain.html => This file contains the description of the class MyMain, including the description of each of the 8 exercises to be completed.
- The folder **results** contains the expected results of the Java exercises.
 - o results.txt => This file contains the output obtained from running the lecturer's solution to the 8 exercises proposed.

Actions:

- 1. Create a new project using the IDE and import the file MyMain.java into it.
- 2. Complete the 8 exercises proposed. For each exercise, do not modify the signature of the method, just program your code in the body of the method, as required.
- 3. Use the file results.txt to compare the results to the expected ones. Obviously, exercise 1 will print a different name for each student, but exercises 2-8 should provide the same output as in results.txt.