

Tutorial 1

- 1) Each student must setup the Java development platform on his/her computer
 - a) Java: you have to install the JDK
 - b) maven: use the following tutorial:
<https://gokan-ekinci.developpez.com/tutoriels/java/introduction-bien-debuter-avec-maven/>
 - c) IDE (IntelliJ)
 - d) Git:
 - a) Create a github Repository on <https://github.com/>.
 - b) Add to this repository the HelloWorld maven project created at step (b)
 - c) Add some git users to your repository as developpers and try to test the git commands
 - d) Create a github project as a Maven project in your IDE (IntelliJ) and try to test the git commands from your IDE and verify the modifications in your github repository

- 2) Code a basic HelloWorld that print a message on the screen

HelloWorld

```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello World !");  
    }  
}
```

- 3) Then Add the "log4j" librairy to the project without using Maven and make it run correctly. The LoggerHelloWorld must print a log4j error.

LoggerHelloWorld

```
import org.apache.log4j.Logger;  
  
public class LoggerMain {  
  
    private static final Logger LOGGER = Logger.getLogger(Main.class);  
  
    public static void main(String[] args) {  
        LOGGER.error("Hello World !");  
    }  
}
```

- 4) Try now to use a Maven dependency to import the log4j library instead of importing the jar manually to the project.

- 5) In order to write Unit tests in your Java project, you have to import and use Junit.

Create a maven dependency for Junit and write a simple Junit test as described here:
<http://www.junit.fr/2011/11/20/tutoriel-eclipse-junit-mon-premier-test-automatique/>