

## STI 3 eme année - Outils de développement TD: Maven

### 1-Mon premier projet Maven

Exercice 4 :

```
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 4.151s  
[INFO] Finished at: Tue Apr 11 17:02:10 CEST 2017  
[INFO] Final Memory: 13M/172M  
[INFO] -----  
crambour@SA202-10A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

Exercice 5 :

```
crambour@SA202-10A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf/target/classes/jf$  
ls  
App.class  
crambour@SA202-10A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf/target/classes/jf$
```

```
Hello World!  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 3.282s  
[INFO] Finished at: Tue Apr 11 17:09:34 CEST 2017  
[INFO] Final Memory: 11M/176M  
[INFO] -----  
crambour@SA202-10A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

Exercice 6 :

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## Exercice 7

<terminated> App [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (11 avr. 2017 17:16:54)  
Hello World!  
Je test ma classe App

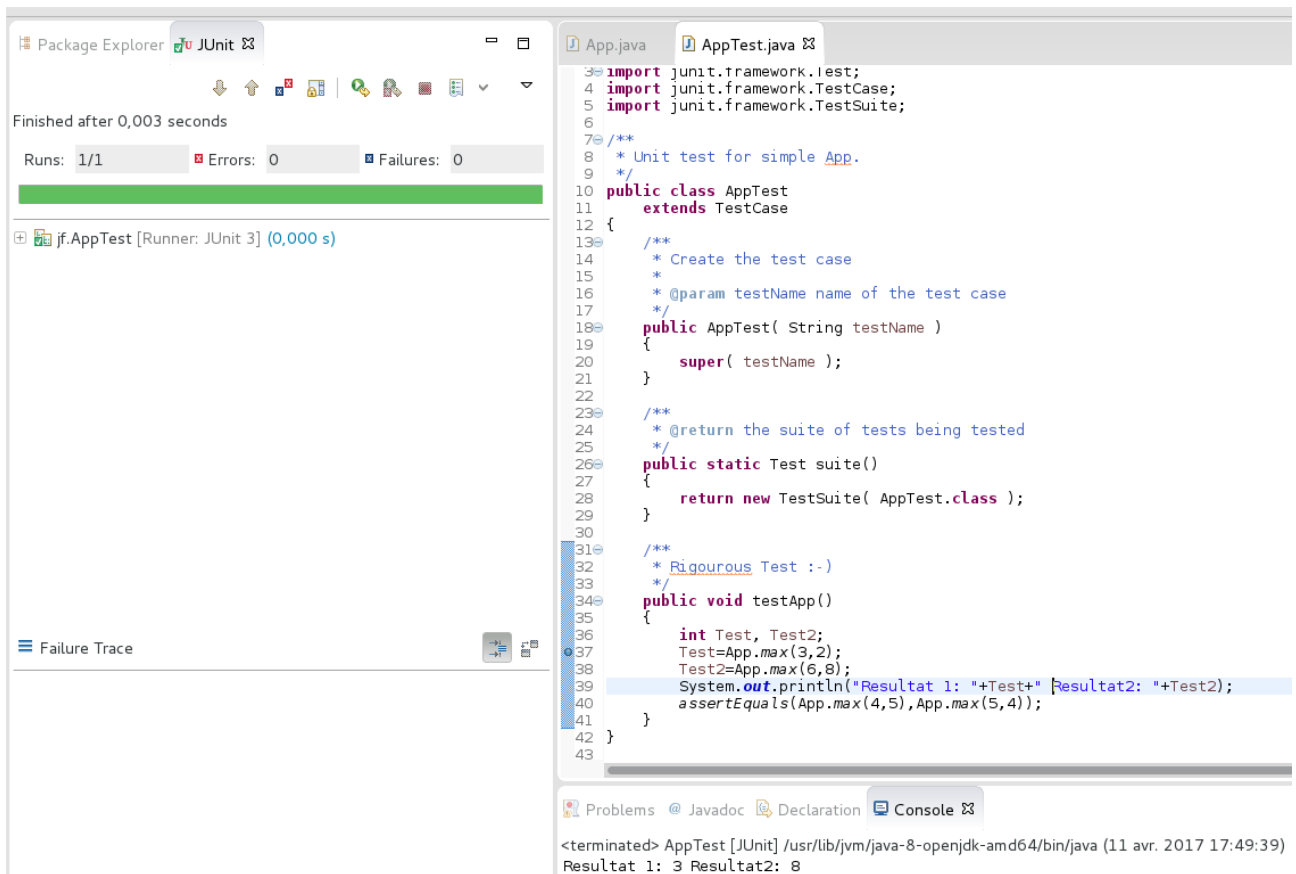
```
crambour@SA202-10A:~/INSA/3A/0utilsDev/3emePartie/ProjectMaven/jf$ mvn exec:java -Dexec.mainClass="jf.App"
[INFO] Scanning for projects...
[INFO] -----
[INFO] Building jf 1
[INFO] -----
[INFO] --- exec-maven-plugin:1.6.0:java (default-cli) @ jf ---
Hello World!
Je test ma classe App
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.605s
[INFO] Finished at: Tue Apr 11 17:17:24 CEST 2017
[INFO] Final Memory: 8M/240M
[INFO] -----
crambour@SA202-10A:~/INSA/3A/0utilsDev/3emePartie/ProjectMaven/jf$
```

## Exercice 8 :

## Exercice 9 :

<terminated> App [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (11 avr. 2017 17:27:02)  
Hello World!  
Je test ma classe App  
Resultat de ma fonction Max: 5

## Exercice 10



The screenshot shows an IDE with the Package Explorer on the left, displaying a JUnit test run for `jf.AppTest`. The test run summary indicates it finished after 0.003 seconds with 1/1 runs, 0 errors, and 0 failures. The main editor shows the source code of `AppTest.java`, which imports `JUnit` classes and implements a test case for `App`. The test case includes a constructor `AppTest(String testName)`, a `suite()` method, and a `testApp()` method that performs calculations and assertions. The console at the bottom shows the output of the test run, including the test name, the path to the Java runtime, and the results of the calculations.

```
import junit.framework.Test;
import junit.framework.TestCase;
import junit.framework.TestSuite;

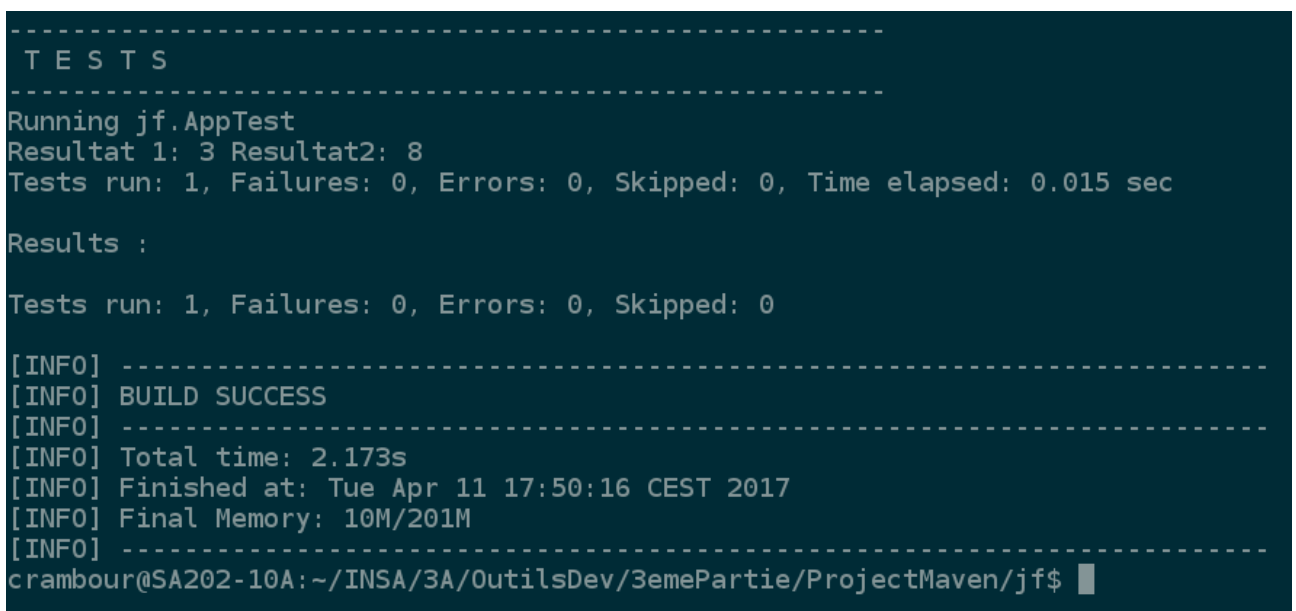
/**
 * Unit test for simple App.
 */
public class AppTest
    extends TestCase
{
    /**
     * Create the test case
     *
     * @param testName name of the test case
     */
    public AppTest( String testName )
    {
        super( testName );
    }

    /**
     * @return the suite of tests being tested
     */
    public static Test suite()
    {
        return new TestSuite( AppTest.class );
    }

    /**
     * Rigorous Test :-)
     */
    public void testApp()
    {
        int Test, Test2;
        Test=App.max(3,2);
        Test2=App.max(6,8);
        System.out.println("Resultat 1: "+Test+" Resultat2: "+Test2);
        assertEquals(App.max(4,5), App.max(5,4));
    }
}
```

<terminated> AppTest [JUnit] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (11 avr. 2017 17:49:39)  
Resultat 1: 3 Resultat2: 8

## Exercice 11 :



The screenshot shows a terminal window with the output of a JUnit test run. The output includes the test name, the path to the Java runtime, and the results of the calculations. The output is formatted with a header section, a separator line, and a footer section.

```
-----
T E S T S
-----
Running jf.AppTest
Resultat 1: 3 Resultat2: 8
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.015 sec

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.173s
[INFO] Finished at: Tue Apr 11 17:50:16 CEST 2017
[INFO] Final Memory: 10M/201M
[INFO] -----
crambour@SA202-10A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

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Exercice 12 :  
Exercice 13 :

```
[INFO] Building jar: /promo2019/crambour/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf
/target/marelease.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.159s
[INFO] Finished at: Wed Apr 12 11:26:41 CEST 2017
[INFO] Final Memory: 11M/192M
[INFO] -----
crambour@SA204-01A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

Exercice 14 :

```
crambour@SA204-01A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$ java -jar target/m
arelease.jar
Hello World!
Je test ma classe App
Resultat de ma fonction Max: 5
crambour@SA204-01A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

Exercice 15 :  
Exercice 16 :

```
Results :
Failed tests:   testApp(jf.AppTest): expected:<4> but was:<5>
Tests run: 1, Failures: 1, Errors: 0, Skipped: 0

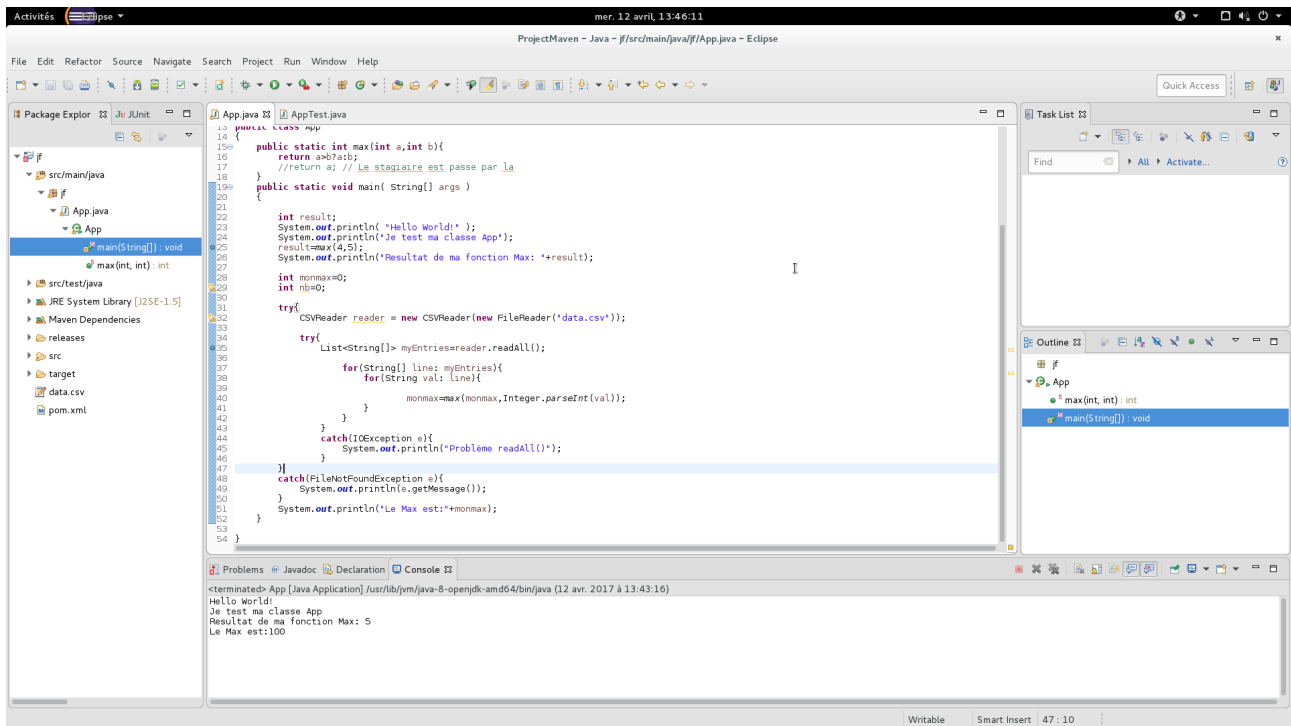
[INFO] -----
[INFO] BUILD FAILURE
[INFO] -----
[INFO] Total time: 0.809s
[INFO] Finished at: Wed Apr 12 11:29:30 CEST 2017
[INFO] Final Memory: 7M/241M
[INFO] -----
[ERROR] Failed to execute goal org.apache.maven.plugins:maven-surefire-plugin:2.10:te
st (default-test) on project jf: There are test failures.
[ERROR]
[ERROR] Please refer to /promo2019/crambour/INSA/3A/OutilsDev/3emePartie/ProjectMaven
/jf/target/surefire-reports for the individual test results.
[ERROR] -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the
following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoFailureExceptio
n
crambour@SA204-01A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

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Exercice 18 :  
Exercice 19 :  
Exercice 20 :  
Exercice 21 :



Exercice 22 :

```
<terminated> App [Java Application] /usr/lib/jvm/
Hello World!
Je test ma classe App
Resultat de ma fonction Max: 4
Le Max est:0
```

Exercice 23 :

```
Error: A JNI error has occurred, please check your installation and try again
Exception in thread "main" java.lang.NoClassDefFoundError: com/opencsv/CSVReader
    at java.lang.Class.getDeclaredMethods0(Native Method)
    at java.lang.Class.privateGetDeclaredMethods(Class.java:2701)
    at java.lang.Class.privateGetMethodRecursive(Class.java:3048)
    at java.lang.Class.getMethod0(Class.java:3018)
    at java.lang.Class.getMethod(Class.java:1784)
    at sun.launcher.LauncherHelper.validateMainClass(LauncherHelper.java:544)
    at sun.launcher.LauncherHelper.checkAndLoadMain(LauncherHelper.java:526)
Caused by: java.lang.ClassNotFoundException: com.opencsv.CSVReader
    at java.net.URLClassLoader.findClass(URLClassLoader.java:381)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
    at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:331)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
    ... 7 more
crambour@SA204-11A:~/INSA/3A/OutilsDev/3emePartie/ProjectMaven/jf$
```

Exercice 24 :  
Exercice 25 :  
Exercice 26 :  
Exercice 27 :  
Exercice 28 :

```
<terminated> App [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (12 avr. 2017 à 14:47:04)
Resultat de ma fonction Max: 5
OUT:[42, 43, 4, 3, 22]
OUT:[35, 27]
Le Max est:100
```

Exercice 29 :  
Exercice 30 :