TD: Maven

Dépôt git: https://github.com/Miafiaj/ProjetMaven.git

1-Mon premier projet Maven:

Exercice 1-9:

Création et mise en place du projet, présent dans le git.

```
Exercice 10:
```

```
public void testApp()
{
    assertEquals(5,App.max(4,5));
    assertEquals(5,App.max(5,4));
}
```

Exercice 11:

TESTS

Running jrouxel.AppTest

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.009 sec

Results:

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

Exercice 12:

```
<dependencies>
  <dependency>
   <groupId>junit</groupId>
   <artifactId>iunit</artifactId>
   <version>3.8.1</version>
   <scope>test</scope>
  </dependency>
 </dependencies>
 <build>
  <plugins>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-compiler-plugin</artifactId>
   <version>2.3.2</version>
   <configuration>
    <source>1.6</source>
    <target>1.6</target>
   </configuration>
  </plugin>
  </plugins>
 </build>
</project>
Exercice 13:
On créé la release (ici jrouxel), on obtient un build succes :
[INFO] -----
[INFO] Building irouxel 1
[INFO] -----
[INFO]
[INFO] --- maven-resources-plugin:2.3:resources (default-resources) @ jrouxel ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is
platform dependent!
[INFO] skip non existing resourceDirectory
/promo2019/jrouxel/Outil developpement/TD Maven/ProjetsMaven/jrouxel/ProjetMaven/src/main
/resources
[INFO]
[INFO] --- maven-compiler-plugin:2.3.2:compile (default-compile) @ jrouxel ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.3:testResources (default-testResources) @ jrouxel ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is
platform dependent!
[INFO] skip non existing resourceDirectory
/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/src/test/r
esources
[INFO]
[INFO] --- maven-compiler-plugin:2.3.2:testCompile (default-testCompile) @ jrouxel ---
[INFO] Nothing to compile - all classes are up to date
```

[INFO]

[INFO] --- maven-surefire-plugin:2.10:test (default-test) @ jrouxel ---

[INFO] Surefire report directory:

 $/promo 2019/jrouxel/Outil_developpement/TD_Maven/Projets Maven/jrouxel/Projet Maven/target/surefire-reports$

TESTS

Running jrouxel.AppTest

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.013 sec

Results:

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

[INFO]

[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ jrouxel ---

[INFO] Building jar:

 $/promo 2019/jrouxel/Outil_developpement/TD_Maven/Projets Maven/jrouxel/Projet Maven/target/marelease.jar$

[INFO]

[INFO] --- maven-dependency-plugin:2.5.1:copy-dependencies (copy-dependencies) @ jrouxel ---

[INFO] Copying commons-logging-1.2.jar to

 $/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/dependency-jars/commons-logging-1.2.jar$

[INFO] Copying opencsv-3.9.jar to

 $/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/dependency-jars/opencsv-3.9.jar$

[INFO] Copying commons-lang3-3.5.jar to

/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/dependency-jars/commons-lang3-3.5.jar

[INFO] Copying commons-collections-3.2.2.jar to

/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/dependency-jars/commons-collections-3.2.2.jar

[INFO] Copying commons-beanutils-1.9.3.jar to

 $/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/dependency-jars/commons-beauutils-1.9.3. jar$

[INFO]

[INFO] --- maven-install-plugin:2.4:install (default-install) @ jrouxel ---

[INFO] Installing

 $/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/marelease.jar to /promo2019/jrouxel/.m2/repository/jrouxel/jrouxel/1/jrouxel-1.jar$

[INFO] Installing

/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/pom.xml to /promo2019/jrouxel/.m2/repository/jrouxel/jrouxel/1/jrouxel-1.pom

[INFO] -----

[INFO] BUILD SUCCESS

[INFO] ------

[INFO] Total time: 9.358s

[INFO] Finished at: Wed Apr 12 15:26:12 CEST 2017

[INFO] Final Memory: 11M/241M

[INFO]

Exercice 14:

On a bien l'éxecution du main

jrouxel@SA202-24A:~/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven\$ java -jar target/jrouxel.jar

Max:5

Exercice 16:

On obtient une erreur lors de la release du projet, dû au mauvais résultats des test. (Le programme attendait 5 et a reçu 4) .

TESTS

Running jrouxel.AppTest

Tests run: 1, Failures: 1, Errors: 0, Skipped: 0, Time elapsed: 0.011 sec <<< FAILURE!

Results:

Failed tests: testApp(jrouxel.AppTest): expected:<5> but was:<4>

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

[INFO] ------

[INFO] BUILD FAILURE

[INFO] -----

[INFO] Total time: 0.633s

[INFO] Finished at: Tue Apr 11 18:21:43 CEST 2017

[INFO] Final Memory: 8M/240M

[INFO] -----

[ERROR] Failed to execute goal org.apache.maven.plugins:maven-surefire-plugin:2.10:test (default-test) on project jrouxel: There are test failures.

[ERROR]

[ERROR] Please refer to

 $/promo2019/jrouxel/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/surefire-reports for the individual test results.$

[ERROR] -> [Help 1]

[ERROR]

[ERROR] To see the full stack trace of the errors, re-run Mayen with the -e switch.

[ERROR] Re-run Maven using the -X switch to enable full debug logging.

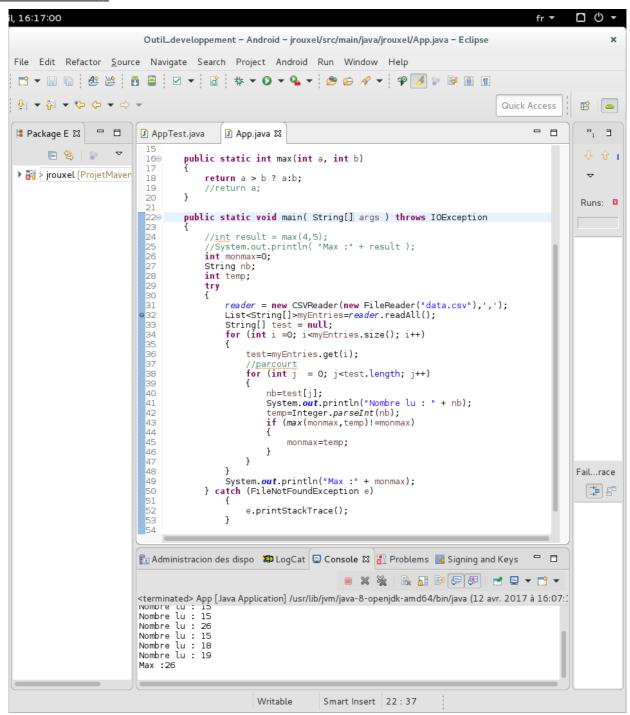
[ERROR]

[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/MojoFailureException

2-Open CSV:

Exercice 20-21:



Le code affiche les nombres lus dans le fichier csv et récupère bien le nombre max.

Exercice 22:

Avec le code du stagiaire on obtient max=0, le max n'est pas changé vu que la fonction max renvoit seulement la valeur de max qui est au départ 0.

Exercice 23:

```
jrouxel@SA204-11A:~/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/test_release$ j
ava -jar marelease.jar
Exception in thread "main" java.lang.NoClassDefFoundError: com/opencsv/CSVReader
    at jrouxel.App.main(App.java:31)
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)
    ... 1 more
```

Quand on exécute le jar on obtient une erreur, il ne trouve pas le fichier csv qu'il doit lire.

```
jrouxel@SA204-11A:~/Outil_developpement/TD_Maven/ProjetsMaven/jrouxel/ProjetMaven/target/test_release$ u
nzip marelease.jar
Archive: marelease.jar
    creating: META-INF/
    inflating: META-INF/MANIFEST.MF
    creating: jrouxel/
    inflating: jrouxel/App.class
    creating: META-INF/maven/
    creating: META-INF/maven/jrouxel/
    creating: META-INF/maven/jrouxel/
    inflating: META-INF/maven/jrouxel/jrouxel/
    inflating: META-INF/maven/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jrouxel/jro
```

En dézippant la release on voit ce qu'il y a dans la release, on y trouve les fichiers de classe de java ainsi que les fichiers de configuration du projet maven. Il manque donc bien le fichier csv à lire.

Exercice 25:

Après avoir édité le fichier pom.xml avec le plugin du TD, la release nouvellement faite contient les bibliothèques CSV nécessaire pour lire les fichiers.

3- Commons Collection:

Exercice 26: