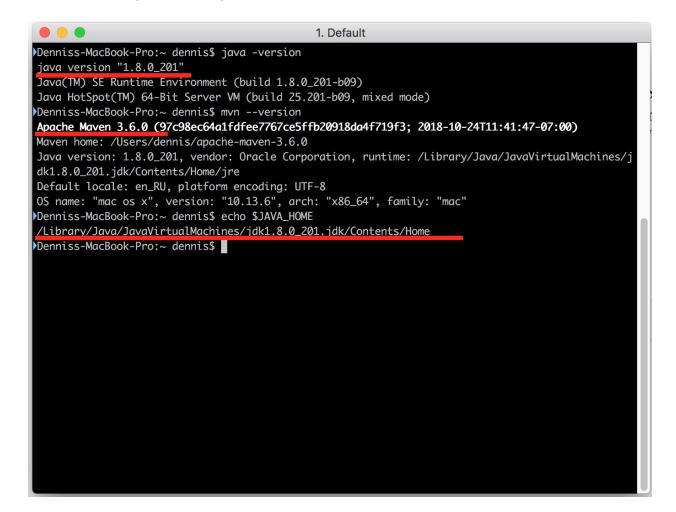
Task 9. Maven

#### 1. Install Mayen

About Maven https://maven.apache.org/ I am using MacOs, HighSierra 10.13.6

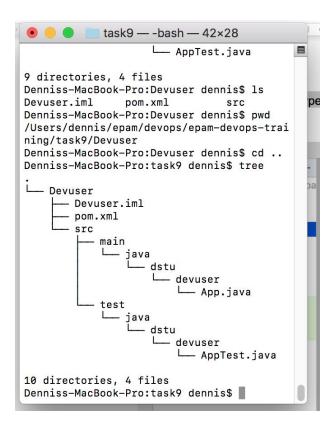


## Task 1. Maven console application

## 1.1 Create maven-project

mvn archetype:generate

- -DgroupId=dstu.devuser
- -DartifactId=DEVuser
- -Dversion=1.0-SNAPSHOT -DarchetypeArtifactId=maven-archetype-quickstart



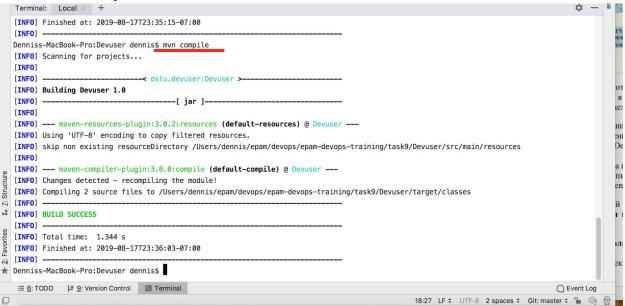
```
Results pom.xml:
<?xml version="1.0" encoding="UTF-8"?>
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>dstu.devuser</groupId>
<artifactId>Devuser</artifactId>
<version>1.0</version>
<name>Devuser</name>
<!-- FIXME change it to the project's website -->
<url>url>http://www.example.com</url>
 <maven.compiler.source>1.7</maven.compiler.source>
 <maven.compiler.target>1.7</maven.compiler.target>
</properties>
<dependencies>
 <dependency>
  <groupId>junit</groupId>
  <artifactld>junit</artifactld>
  <version>4.11</version>
  <scope>test</scope>
 </dependency>
</dependencies>
<build>
 <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
  <plugins>
     --- clean lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#clean Lifecycle -->
   <plugin>
    <artifactId>maven-clean-plugin</artifactId>
    <version>3.1.0</version>
   </plugin>
   <!-- default lifecycle, jar packaging: see
https://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin_bindings_for_jar_packaging -->
    <artifactId>maven-resources-plugin</artifactId>
    <version>3.0.2</version>
   </plugin>
   <plugin>
    <artifactId>maven-compiler-plugin</artifactId>
    <version>3.8.0</version>
   </plugin>
   <plugin>
    <artifactId>maven-surefire-plugin</artifactId>
    <version>2.22.1</version>
   </plugin>
   <plugin>
    <artifactId>maven-jar-plugin</artifactId>
    <version>3.0.2</version>
   </plugin>
   <plugin>
    <artifactId>maven-install-plugin</artifactId>
    <version>2.5.2</version>
   </plugin>
   <plugin>
    <artifactId>maven-deploy-plugin</artifactId>
    <version>2.8.2</version>
   </plugin>
    <!-- site lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#site_Lifecycle -->
   <plugin>
    <artifactId>maven-site-plugin</artifactId>
    <version>3.7.1</version>
   </plugin>
   <plugin>
    <artifactId>maven-project-info-reports-plugin</artifactId>
    <version>3.0.0</version>
   </plugin>
  </plugins>
 </pluginManagement>
</build>
```

</project>

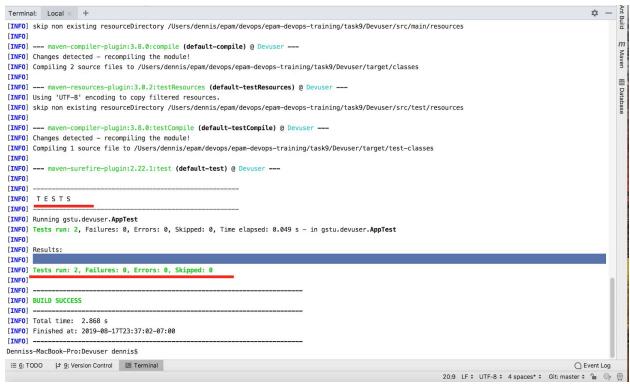
#### 1.2 Learn maven commands:

#### - mvn validate

#### mvn compile



#### - mvn test : run tests from test folder

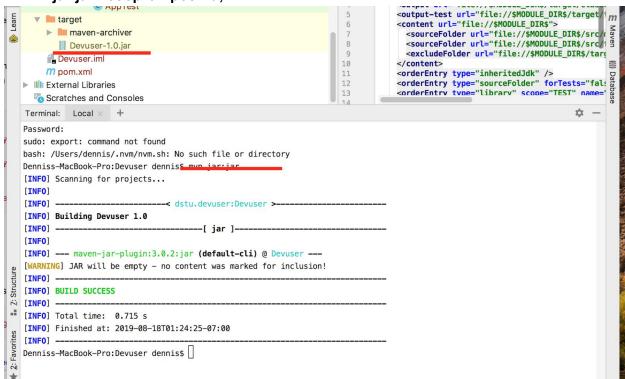


### - mvn exec:java -Dexec.mainClass=GSTU.DEVuser.App

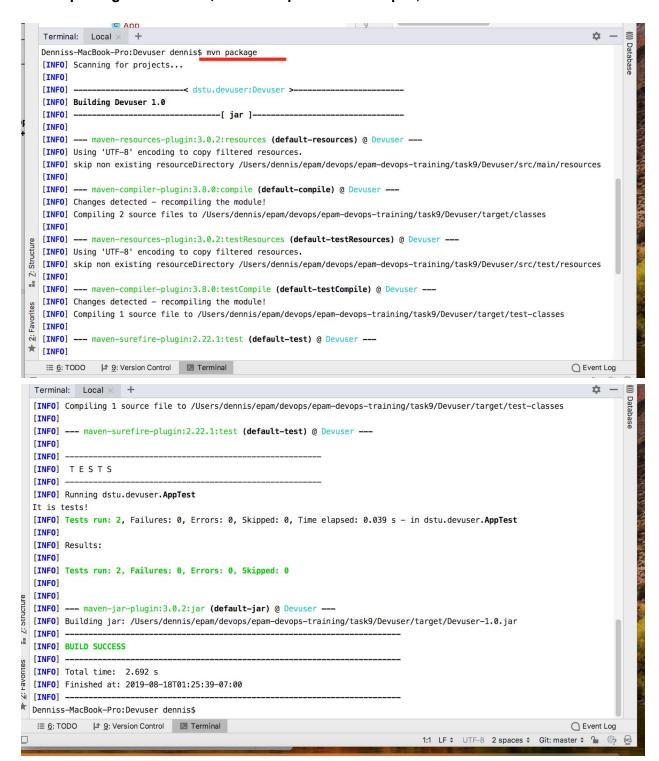
```
Terminal: Local × +

Denniss-MacBook-Pro:Devuser dennis$ mvn exec:java -Dexec.mainClass=dstu.devuser.App
[INFO] Scanning for projects...
[INFO] | Scanning for projects...
[INFO] | Scanning for projects...
[INFO] | Suiding Devuser 1.0
[INFO] | Suiding Devuser | Suiding Devus
```

- mvn jar:jar - сборка проекта;



### - mvn package - компиляция + тестирование + сборка;

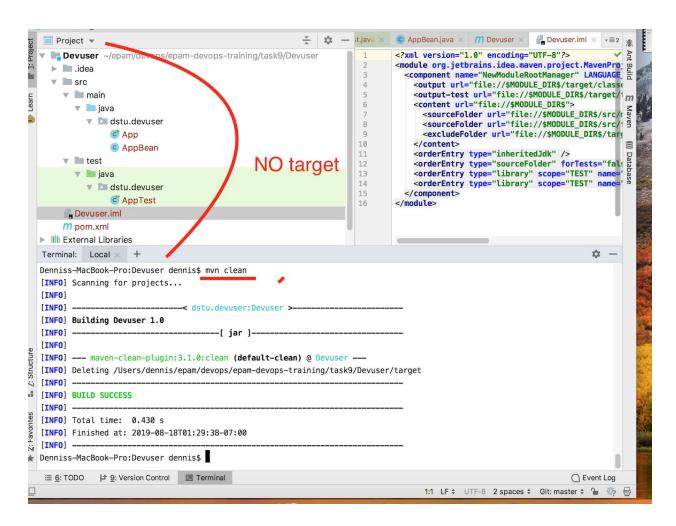


### - mvn install -Dmaven.test.skip=true - компиляция + сборка;

```
Denniss-MacBook-Pro:Devuser dennis$ mvn install -Dmaven.test.skip=true
[INFO] Scanning for projects...
[INFO]
[INFO] -
                            --< dstu.devuser:Devuser >----
[INFO] Building Devuser 1.0
[INFO] ---
                             -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin: 3.0.2: resources (default-resources) @ Devuser ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
\textbf{[INFO]} \ \ \text{skip non existing resourceDirectory /Users/dennis/epam/devops-training/task9/Devuser/src/main/resources
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ Devuser ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 2 source files to /Users/dennis/epam/devops/epam-devops-training/task9/Devuser/target/classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ Devuser ---
[INFO] Not copying test resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ Devuser ---
[INFO] Not compiling test sources
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ Devuser ---
[INFO] Tests are skipped.
[INFO]
C Event Log
```

[INFO]	
[INFO] maven-resources-plugin:3.0.2:testResources (default-testResources) @ Devuser	
[INFO] Not copying test resources	
[INFO]	
[INFO] maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ Devuser	
[INFO] Not compiling test sources	
[INFO]	
[INFO] maven-surefire-plugin:2.22.1:test (default-test) @ Devuser	
[INFO] Tests are skipped.	
[INFO]	
[INFO] maven-jar-plugin:3.0.2:jar (default-jar) @ Devuser	
[INFO] Building jar: /Users/dennis/epam/devops/epam-devops-training/task9/Devuser/target/Devuser-1.0.jar	
[INFO]	
[INFO] maven-install-plugin:2.5.2:install (default-install) @ Devuser	
[INFO] Installing /Users/dennis/epam/devops/epam-devops-training/task9/Devuser/target/Devuser-1.0.jar to /Users/dennis/.m2/r	
epository/dstu/devuser/Devuser/1.0/Devuser-1.0.jar	
[INFO] Installing /Users/dennis/epam/devops/epam-devops-training/task9/Devuser/pom.xml to /Users/dennis/.m2/repository/dstu/	
devuser/Devuser-1.0/Devuser-1.0.pom	
[INFO]	
[INFO] BUILD SUCCESS	
[INFO]	
[INFO] Total time: 1.800 s	
[INFO] Finished at: 2019-08-18T01:28:33-07:00	
[INFO]	
Denniss-MacBook-Pro:Devuser dennis\$	
11 IF 1 ITF-8 2 spaces 1 Git master 1 = 6	£

mvn clean



### 1.3 Make executable project

Add to pom.xml configuration for maven-jar-plugin:

```
<configuration>
    <archive>
    <manifest> <addClasspath>true</addClasspath> <mainClass>gstu.devuser.App</mainClass>
    </manifest>
    </archive>
</configuration>
```

## 1.4 Start project

# mvn package = compile+jar

