

ACCOLITE UNIVERSITY, JULY 2020

ASSIGNMENT SUBMISSION

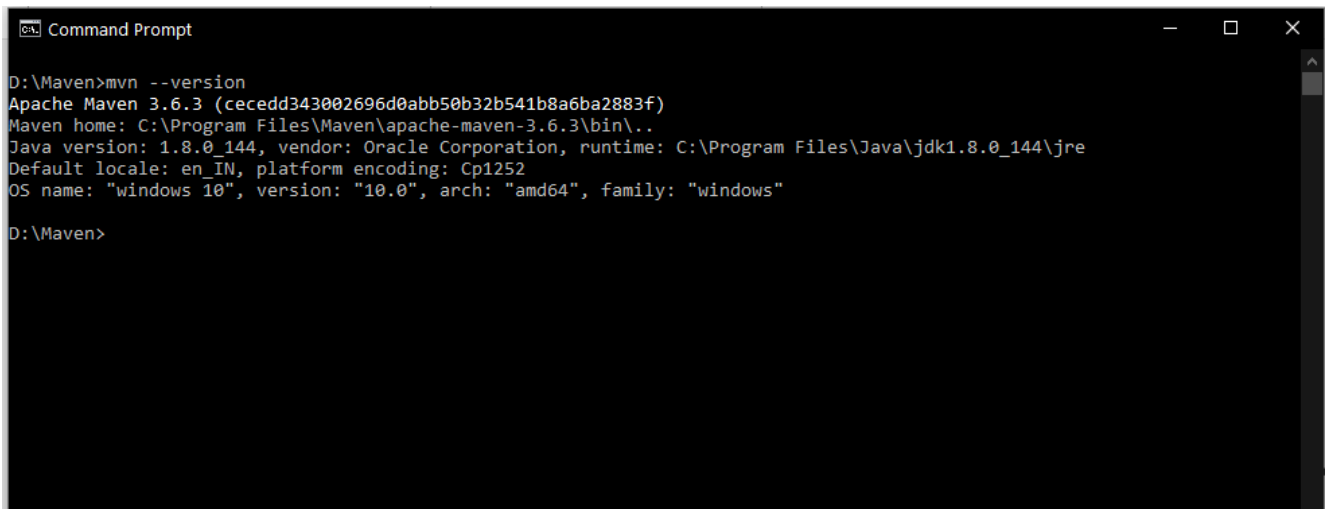
MAVEN

Submitted By: Ayush Malik

This document contains the commands and the screenshots for the assignment's questions. The zip files produced for the 'sample project' and the 'web-app' have been uploaded in the Github repository.

1. Install Maven

- Send the screenshot of "mvn -version"



```
Command Prompt
D:\Maven>mvn --version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: C:\Program Files\Maven\apache-maven-3.6.3\bin\..
Java version: 1.8.0_144, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_144\jre
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
D:\Maven>
```

2. Create a sample maven project

- Using archetype plugin and generate goal.
- Give custom values for groupId, artifactId, version, package and execute "mvn install" and "mvn exec:java -Dexec.mainClass=your-fully-qualified-class-name".
- Share zip of project and screenshot for "mvn install" and "mvn exec:java" command

Commands Used:

- mvn archetype:generate -DgroupId=com.ayush -DartifactId=maven-assignment -Dpackage=com.ayush -Dversion=1.0 -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
- mvn install

- o mvn exec:java -Dexec.mainClass=com.ayush.App

Screenshot of 'mvn-install':

```
Command Prompt
D:\Maven\maven-assignment>mvn install
[INFO] Scanning for projects...
[INFO]
-----< com.ayush:maven-assignment >-----
[INFO] Building maven-assignment 1.0
[INFO]
-----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-assignment ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\Maven\maven-assignment\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ maven-assignment ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to D:\Maven\maven-assignment\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ maven-assignment ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\Maven\maven-assignment\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ maven-assignment ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to D:\Maven\maven-assignment\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ maven-assignment ---
[INFO] Surefire report directory: D:\Maven\maven-assignment\target\surefire-reports
-----
T E S T S
-----
Running com.ayush.AppTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.016 sec

Results :

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

[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ maven-assignment ---
[INFO] Building jar: D:\Maven\maven-assignment\target\maven-assignment-1.0.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ maven-assignment ---
[INFO] Installing D:\Maven\maven-assignment\target\maven-assignment-1.0.jar to C:\Users\Ayush Malik\.m2\repository\com\ayush\maven-assignment\1.0\maven-assignment-1.0.jar
[INFO] Installing D:\Maven\maven-assignment\pom.xml to C:\Users\Ayush Malik\.m2\repository\com\ayush\maven-assignment\1.0\maven-assignment-1.0.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 8.538 s
[INFO] Finished at: 2020-07-29T13:01:34+05:30
[INFO]
-----
```

Screenshot of 'mvn-exec:java':

```
Command Prompt
D:\Maven\maven-assignment>mvn exec:java -Dexec.mainClass=com.ayush.App
[INFO] Scanning for projects...
[INFO]
-----< com.ayush:maven-assignment >-----
[INFO] Building maven-assignment 1.0
[INFO]
-----[ jar ]-----
[INFO]
[INFO] --- exec-maven-plugin:3.0.0:java (default-cli) @ maven-assignment ---
Hello World!
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 1.394 s
[INFO] Finished at: 2020-07-29T13:08:40+05:30
[INFO]
-----

D:\Maven\maven-assignment>
```

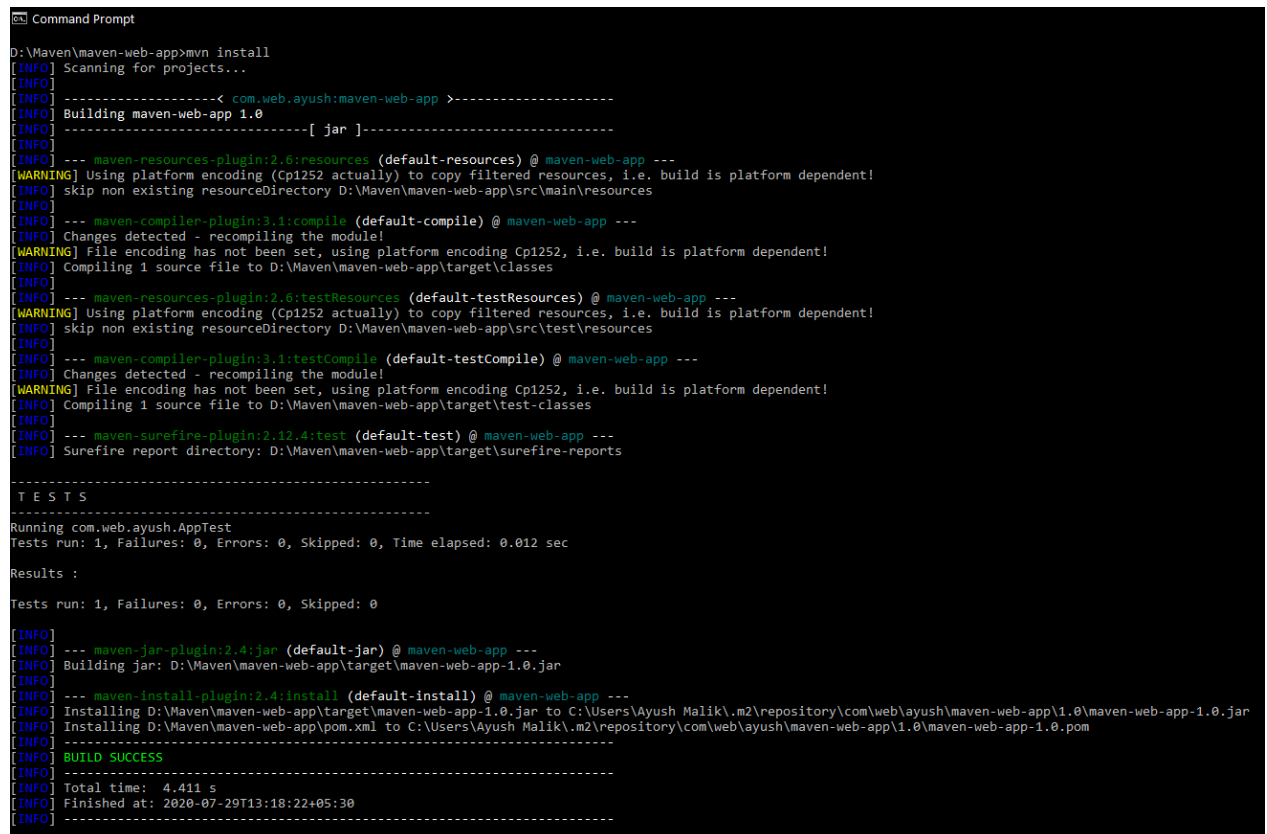
3. Create a maven web-app project

- Using archetype plugin and generate goal.
- Give custom values for groupId, artifactId, version, package and execute "mvn install" and "mvn exec:java -Dexec.mainClass=your-fully-qualified-class-name".
- Share zip of project and screenshot for "mvn install"

Commands Used:

- mvn archetype:generate -DgroupId=com.web.ayush -DartifactId=maven-web-app -Dpackage=com.web.ayush -Dversion=1.0 -DarchetypeArtifactId=maven-archetype-webapp -DinteractiveMode=false
- mvn install
- mvn exec:java -Dexec.mainClass=com.web.ayush.App

Screenshot of 'mvn-install':



```
Command Prompt
D:\Maven\maven-web-app>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.web.ayush:maven-web-app >-----
[INFO] Building maven-web-app 1.0
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-web-app ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\Maven\maven-web-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ maven-web-app ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to D:\Maven\maven-web-app\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ maven-web-app ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\Maven\maven-web-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ maven-web-app ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to D:\Maven\maven-web-app\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ maven-web-app ---
[INFO] Surefire report directory: D:\Maven\maven-web-app\target\surefire-reports
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
Running com.web.ayush.AppTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.012 sec
Results :
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ maven-web-app ---
[INFO] Building jar: D:\Maven\maven-web-app\target\maven-web-app-1.0.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ maven-web-app ---
[INFO] Installing D:\Maven\maven-web-app\target\maven-web-app-1.0.jar to C:\Users\Ayush Malik\.m2\repository\com\web\ayush\maven-web-app\1.0\maven-web-app-1.0.jar
[INFO] Installing D:\Maven\maven-web-app\pom.xml to C:\Users\Ayush Malik\.m2\repository\com\web\ayush\maven-web-app\1.0\maven-web-app-1.0.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 4.411 s
[INFO] Finished at: 2020-07-29T13:18:22+05:30
[INFO] -----
```

4. In the above created sample maven project (Step 2) run "mvn install" again but it should now skip the execution of tests.

- Send the screenshot of "mvn install" that should skip the execution of tests.

Commands Used:

- `mvn install -Dmaven.test.skip=true`

Screenshot of 'mvn-install':

```
Command Prompt
D:\Maven\maven-assignment>mvn install -Dmaven.test.skip=true
[INFO] Scanning for projects...
[INFO] -----< com.ayush:maven-assignment >-----
[INFO] Building maven-assignment 1.0
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-assignment ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\Maven\maven-assignment\src\main\resources
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ maven-assignment ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ maven-assignment ---
[INFO] Not copying test resources
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ maven-assignment ---
[INFO] Not compiling test sources
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ maven-assignment ---
[INFO] Tests are skipped.
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ maven-assignment ---
[INFO] --- maven-install-plugin:2.4:install (default-install) @ maven-assignment ---
[INFO] Installing D:\Maven\maven-assignment\target\maven-assignment-1.0.jar to C:\Users\Ayush Malik\.m2\repository\com\ayush\maven-assignment\1.0\maven-assignment-1.0.jar
[INFO] Installing D:\Maven\maven-assignment\pom.xml to C:\Users\Ayush Malik\.m2\repository\com\ayush\maven-assignment\1.0\maven-assignment-1.0.pom
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.186 s
[INFO] Finished at: 2020-07-29T13:11:09+05:30
[INFO] -----
```