

Maven Assignment

1. Shell command to list out all maven goal

mvn help:describe -Dcmd=deploy

```
pc@DESKTOP-1K8HCY9 MINGW64 /g/Publicis Sapient/PJP Assignments/week 2/DateTimeCalculator
$ mvn help:describe -Dcmd=deploy
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building DateTimeCalculator 1.0
[INFO] -----
[INFO]
[INFO] --- maven-help-plugin:3.2.0:describe (default-cli) @ DateTimeCalculator ---
[INFO] 'deploy' is a phase corresponding to this plugin:
org.apache.maven.plugins:maven-deploy-plugin:2.7:deploy
[INFO]
[INFO] It is a part of the lifecycle for the POM packaging 'jar'. This lifecycle includes the following phases:
* validate: Not defined
* initialize: Not defined
* generate-sources: Not defined
* process-sources: Not defined
* generate-resources: Not defined
* process-resources: org.apache.maven.plugins:maven-resources-plugin:2.6:resources
* compile: org.apache.maven.plugins:maven-compiler-plugin:3.1:compile
* process-classes: Not defined
* generate-test-sources: Not defined
* process-test-sources: Not defined
* generate-test-resources: Not defined
* process-test-resources: org.apache.maven.plugins:maven-resources-plugin:2.6:testResources
* test-compile: org.apache.maven.plugins:maven-compiler-plugin:3.1:testCompile
* process-test-classes: Not defined
* test: org.apache.maven.plugins:maven-surefire-plugin:2.12.4:test
* prepare-package: Not defined
* package: org.apache.maven.plugins:maven-jar-plugin:2.4:jar
* pre-integration-test: Not defined
* integration-test: Not defined
* post-integration-test: Not defined
* verify: Not defined
* install: org.apache.maven.plugins:maven-install-plugin:2.4:install
* deploy: org.apache.maven.plugins:maven-deploy-plugin:2.7:deploy
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO]
[INFO] Total time: 0.931 s
[INFO] Finished at: 2020-08-24T01:13:47+05:30
[INFO] Final Memory: 12M/155M
```

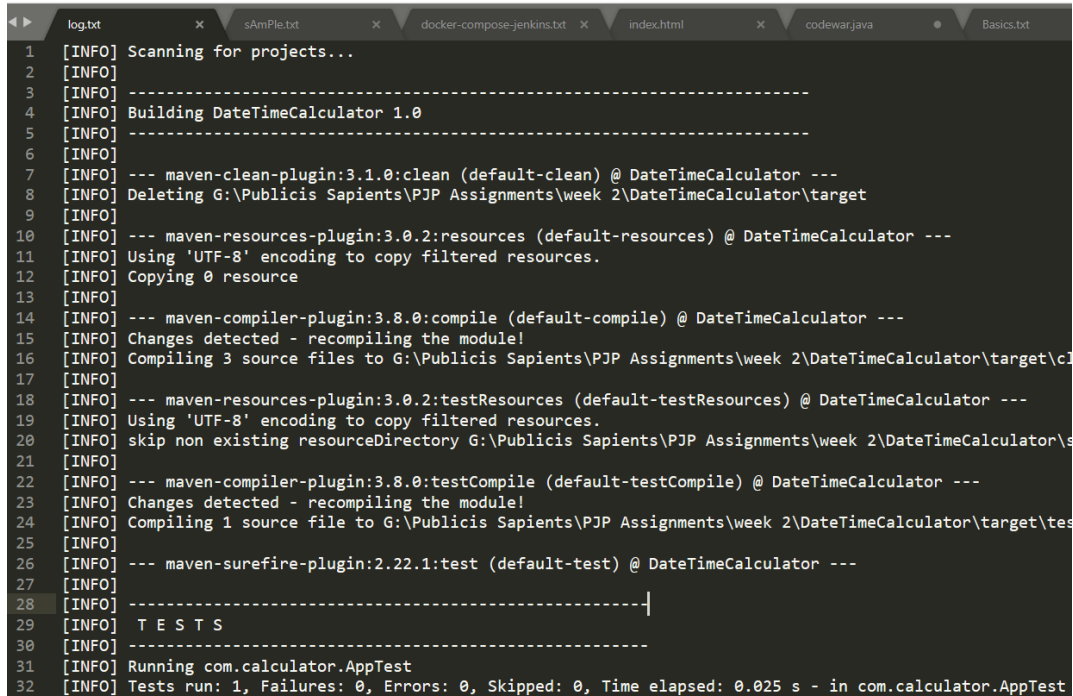
2. Shell command to demonstrate local copy of maven and its benefits **mvn -Dmaven.repo.local="C:\Users\pc\.m2\repository" clean install**

```
pc@DESKTOP-1K8HCY9 MINGW64 /g/Publicis Sapient/PJP Assignments/week 2/DateTimeCalculator
$ mvn -Dmaven.repo.local="C:\Users\pc\.m2\repository" clean install
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building DateTimeCalculator 1.0
[INFO] -----
[INFO]
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ DateTimeCalculator ---
[INFO] Deleting G:\Publicis Sapient\PJP Assignments\week 2\DateTimeCalculator\target
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ DateTimeCalculator ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ DateTimeCalculator ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 3 source files to G:\Publicis Sapient\PJP Assignments\week 2\DateTimeCalculator\target\classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ DateTimeCalculator ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory G:\Publicis Sapient\PJP Assignments\week 2\DateTimeCalculator\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ DateTimeCalculator ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to G:\Publicis Sapient\PJP Assignments\week 2\DateTimeCalculator\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ DateTimeCalculator ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.calculator.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.032 s - in com.calculator.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ DateTimeCalculator ---
[INFO] Building jar: G:\Publicis Sapient\PJP Assignments\week 2\DateTimeCalculator\target\DateTimeCalculator.jar
[INFO]
```

Local copy of artifacts improve network usage, and also enables offline dependency management.

3. Shell command to output console results on log file

mvn clean install > log.txt

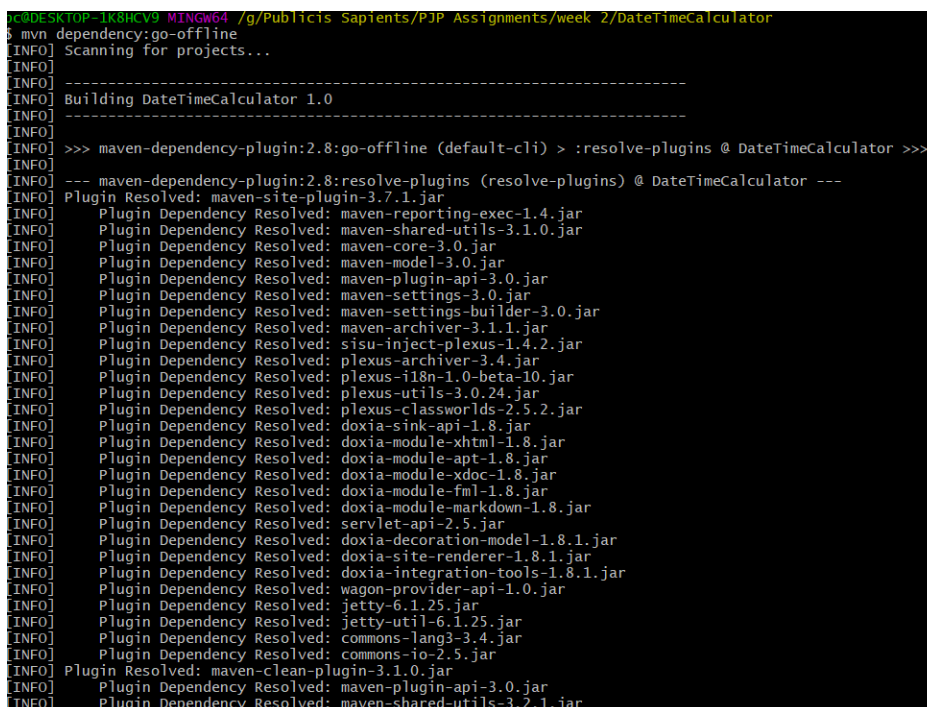


```
1 [INFO] Scanning for projects...
2 [INFO]
3 [INFO] -----
4 [INFO] Building DateTimeCalculator 1.0
5 [INFO] -----
6 [INFO]
7 [INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ DateTimeCalculator ---
8 [INFO] Deleting G:\Publicis Sapient\Projects\week 2\DateTimeCalculator\target
9 [INFO]
10 [INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ DateTimeCalculator ---
11 [INFO] Using 'UTF-8' encoding to copy filtered resources.
12 [INFO] Copying 0 resource
13 [INFO]
14 [INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ DateTimeCalculator ---
15 [INFO] Changes detected - recompiling the module!
16 [INFO] Compiling 3 source files to G:\Publicis Sapient\Projects\week 2\DateTimeCalculator\target\classes
17 [INFO]
18 [INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ DateTimeCalculator ---
19 [INFO] Using 'UTF-8' encoding to copy filtered resources.
20 [INFO] skip non existing resourceDirectory G:\Publicis Sapient\Projects\week 2\DateTimeCalculator\src\test\resources
21 [INFO]
22 [INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ DateTimeCalculator ---
23 [INFO] Changes detected - recompiling the module!
24 [INFO] Compiling 1 source file to G:\Publicis Sapient\Projects\week 2\DateTimeCalculator\target\test-classes
25 [INFO]
26 [INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ DateTimeCalculator ---
27 [INFO]
28 [INFO] -----|
29 [INFO] T E S T S
30 [INFO] -----
31 [INFO] Running com.calculator.AppTest
32 [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.025 s - in com.calculator.AppTest
```

Console output is stored in log.txt file.

4. Shell command to make maven work without internet

mvn dependency:go-offline



```
PCDESKTOP-1K8HCY9 MINGW64 /g/Publicis Sapient\Projects\week 2\DateTimeCalculator
$ mvn dependency:go-offline
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building DateTimeCalculator 1.0
[INFO] -----
[INFO]
[INFO] >>> maven-dependency-plugin:2.8:go-offline (default-cli) > :resolve-plugins @ DateTimeCalculator >>>
[INFO]
[INFO] --- maven-dependency-plugin:2.8:resolve-plugins (resolve-plugins) @ DateTimeCalculator ---
[INFO] Plugin Resolved: maven-site-plugin-3.7.1.jar
[INFO] Plugin Dependency Resolved: maven-reporting-exec-1.4.jar
[INFO] Plugin Dependency Resolved: maven-shared-utils-3.1.0.jar
[INFO] Plugin Dependency Resolved: maven-core-3.0.jar
[INFO] Plugin Dependency Resolved: maven-model-3.0.jar
[INFO] Plugin Dependency Resolved: maven-plugin-api-3.0.jar
[INFO] Plugin Dependency Resolved: maven-settings-3.0.jar
[INFO] Plugin Dependency Resolved: maven-settings-builder-3.0.jar
[INFO] Plugin Dependency Resolved: maven-archiver-3.1.1.jar
[INFO] Plugin Dependency Resolved: sisu-inject-plexus-1.4.2.jar
[INFO] Plugin Dependency Resolved: plexus-archiver-3.4.jar
[INFO] Plugin Dependency Resolved: plexus-i18n-1.0-beta-10.jar
[INFO] Plugin Dependency Resolved: plexus-utils-3.0.24.jar
[INFO] Plugin Dependency Resolved: plexus-classworlds-2.5.2.jar
[INFO] Plugin Dependency Resolved: doxia-sink-api-1.8.jar
[INFO] Plugin Dependency Resolved: doxia-module-xhtml-1.8.jar
[INFO] Plugin Dependency Resolved: doxia-module-apt-1.8.jar
[INFO] Plugin Dependency Resolved: doxia-module-xdoc-1.8.jar
[INFO] Plugin Dependency Resolved: doxia-module-fml-1.8.jar
[INFO] Plugin Dependency Resolved: doxia-module-markdown-1.8.jar
[INFO] Plugin Dependency Resolved: servlet-api-2.5.jar
[INFO] Plugin Dependency Resolved: doxia-decoration-model-1.8.1.jar
[INFO] Plugin Dependency Resolved: doxia-site-renderer-1.8.1.jar
[INFO] Plugin Dependency Resolved: doxia-integration-tools-1.8.1.jar
[INFO] Plugin Dependency Resolved: wagon-provider-api-1.0.jar
[INFO] Plugin Dependency Resolved: jetty-6.1.25.jar
[INFO] Plugin Dependency Resolved: jetty-util-6.1.25.jar
[INFO] Plugin Dependency Resolved: commons-lang3-3.4.jar
[INFO] Plugin Dependency Resolved: commons-io-2.5.jar
[INFO] Plugin Resolved: maven-clean-plugin-3.1.0.jar
[INFO] Plugin Dependency Resolved: maven-plugin-api-3.0.jar
[INFO] Plugin Dependency Resolved: maven-shared-utils-3.2.1.jar
```

mvn clean install -o

MINGYU64707Publicis Sapientis/PJF Assignments/week 2/Date/TimeCalculator

```

C:\DESKTOP-1K8HCV9\MINGW64 /g/Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator
$ mvn clean install -o
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building DateTimeCalculator 1.0
[INFO] -----
[INFO]
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ DateTimeCalculator ---
[INFO] Deleting G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\target
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ DateTimeCalculator ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ DateTimeCalculator ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 3 source files to G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\target\classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ DateTimeCalculator ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ DateTimeCalculator ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ DateTimeCalculator ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO]
[INFO] Running com.calculator.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Time elapsed: 0.027 s - in com.calculator.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ DateTimeCalculator ---
[INFO] Building jar: G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\target\DateTimeCalculator-1.0.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ DateTimeCalculator ---
[INFO] Installing G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\target\DateTimeCalculator-1.0.jar to C:\Users\pc\.m2\repository\com\learn\DateTimeCalculator\1.0\DateTimeCalculator-1.0.jar
[INFO] Installing G:\Publicis Sapient\PJ\ Assignments\week 2\DateTimeCalculator\pom.xml to C:\Users\pc\.m2\repository\com\learn\DateTimeCalculator\1.0\DateTimeCalculator-1.0.pom
[INFO]
[INFO] BUILD SUCCESS

```