

Build and Release Management Lab Experiment 6

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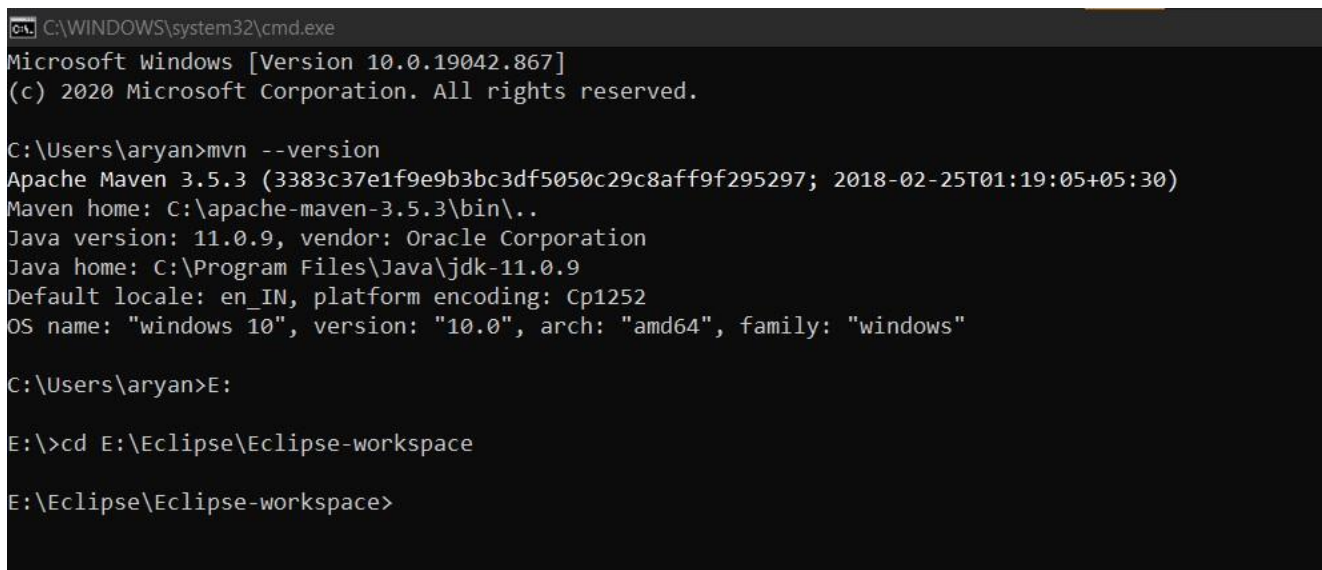
Branch: B.Tech-CSE-DevOps

Aim: Create a maven project using CLI.

Step 1: Open a CLI (Command Prompt or Terminal), then check the maven version installed on your system using the following command.

```
mvn --version
```

After confirming maven, now change your directory to your preferred workspace for saving project files in it.

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\WINDOWS\system32\cmd.exe'. The window content displays the output of the 'mvn --version' command, which includes the Apache Maven version (3.5.3), Maven home path, Java version (11.0.9), Java home path, default locale, and OS information. Below this, the user changes the directory to 'E:\Eclipse\Eclipse-workspace' using the 'cd' command.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19042.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\aryan>mvn --version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T01:19:05+05:30)
Maven home: C:\apache-maven-3.5.3\bin\..
Java version: 11.0.9, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk-11.0.9
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\aryan>E:

E:\>cd E:\Eclipse\Eclipse-workspace

E:\Eclipse\Eclipse-workspace>
```

Step 2: Now enter the following command to create a maven project.

```
mvn archetype:generate -DgroupId=com.mycompany.app -
DartifactId=my-app -DarchetypeArtifactId=maven-archetype-
quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
```

The above command will create a maven project named as my-app which will have a Hello World java program created while the project was created.

C:\WINDOWS\system32\cmd.exe

```
E:\Eclipse\Eclipse-workspace\mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
[INFO] Scanning for projects...
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.3/maven-site-plugin-3.3.pom (21 kB at 11 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.3/maven-site-plugin-3.3.jar (24 kB at 59 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-antrun-plugin-1.3.jar (24 kB at 59 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin/2.2-beta-5/maven-assembly-plugin-2.2-beta-5.jar (209 kB at 282 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.jar (153 kB at 291 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.jar (53 kB at 143 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (14 kB at 35 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (20 kB at 25 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml (949 B at 2.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/3.2.0/maven-archetype-plugin-3.2.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/3.2.0/maven-archetype-plugin-3.2.0.pom (11 kB at 30 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/3.2.0/maven-archetype-3.2.0.pom (12 kB at 33 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/3.2.0/maven-archetype-3.2.0.pom (12 kB at 33 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/3.2.0/maven-archetype-plugin-3.2.0.jar (97 kB at 169 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/3.2.0/maven-archetype-plugin-3.2.0.jar (97 kB at 169 kB/s)
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-catalog/3.2.0/archetype-catalog-3.2.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-catalog/3.2.0/archetype-catalog-3.2.0.pom (1.9 kB at 5.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-models/3.2.0/archetype-models-3.2.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-models/3.2.0/archetype-models-3.2.0.pom (2.7 kB at 7.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-descriptor/3.2.0/archetype-descriptor-3.2.0.pom (2.0 kB at 5.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-common/3.2.0/archetype-common-3.2.0.pom (17 kB at 47 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom (19 kB at 51 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.pom (6.8 kB at 19 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/net/sourceforge/jchardet/jchardet/1.0/jchardet-1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/net/sourceforge/jchardet/jchardet/1.0/jchardet-1.0.pom (1.3 kB at 3.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/jdom/jdom/1.1.3/jdom-1.1.3.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/jdom/jdom/1.1.3/jdom-1.1.3.pom (1.8 kB at 5.1 kB/s)
```

C:\WINDOWS\system32\cmd.exe

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/3.2.0/plexus-io-3.2.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.25/plexus-interpolation-1.25.jar (85 kB at 29 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.19/commons-compress-1.19.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/4.2.1/plexus-archiver-4.2.1.jar (196 kB at 65 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/3.2.0/plexus-io-3.2.0.jar (76 kB at 25 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.8/xz-1.8.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interactivity-api/1.0/plexus-interactivity-api-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interactivity-api/1.0/plexus-interactivity-api-1.0.jar (9.8 kB at 2.8 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-invoker/3.0.1/maven-invoker-3.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.8/xz-1.8.jar (109 kB at 29 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/3.0.1/maven-common-artifact-filters-3.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-invoker/3.0.1/maven-invoker-3.0.1.jar (33 kB at 8.3 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-script-interpreter/1.0/maven-script-interpreter-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/3.0.1/maven-common-artifact-filters-3.0.1.jar (61 kB at 14 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-script-interpreter/1.0/maven-script-interpreter-1.0.jar (21 kB at 4.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/ant/ant/1.8.1/ant-1.8.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.19/commons-compress-1.19.jar (615 kB at 135 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/ant/ant/1.8.1/ant-1.8.1.jar (282 kB at 54 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/ant/ant/1.8.1/ant-1.8.1.jar (1.5 MB at 222 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.jar (1.4 MB at 196 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.jar (4.7 MB at 505 kB/s)
[INFO] Generating project in Batch mode
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.pom (1.6 kB at 4.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/maven-archetype-bundles-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/maven-archetype-bundles-1.4.pom (4.5 kB at 12 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.jar (7.1 kB at 20 kB/s)
[INFO]
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO]
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: my-app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: packageInPathFormat, Value: com/mycompany/app
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: my-app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: E:\Eclipse\Eclipse-workspace\my-app
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 43.483 s
[INFO] Finished at: 2021-03-18T10:07:53+05:30
[INFO]
[INFO]
[INFO]
E:\Eclipse\Eclipse-workspace>
```


mvn package

```

E:\C:\WINDOWS\system32\cmd.exe
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugin-parameter-documenter/2.2.1/maven-plugin-parameter-documenter-2.2.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-jdk14/1.5.6/slf4j-jdk14-1.5.6.jar
Downloading from central: https://repo.maven.apache.org/maven2/backport-util-concurrent/backport-util-concurrent-3.1/backport-util-concurrent-3.1.jar (332 kB at 110 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.2.1/maven-model-2.2.1.jar (88 kB at 28 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/jcl-over-slf4j/1.5.6/jcl-over-slf4j-1.5.6.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugin-parameter-documenter/2.2.1/maven-plugin-parameter-documenter-2.2.1.jar (22 kB at 6.8 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.2.1/maven-repository-metadata-2.2.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-jdk14/1.5.6/slf4j-jdk14-1.5.6.jar (8.8 kB at 2.6 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-error-diagnostics/2.2.1/maven-error-diagnostics-2.2.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar (22 kB at 6.6 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-core/2.2.1/maven-core-2.2.1.jar (178 kB at 51 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/toolchain/2.2.1/maven-toolchain-2.2.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/jcl-over-slf4j/1.5.6/jcl-over-slf4j-1.5.6.jar (17 kB at 4.7 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.2.1/maven-repository-metadata-2.2.1.jar (26 kB at 7.0 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-error-diagnostics/2.2.1/maven-error-diagnostics-2.2.1.jar (13 kB at 3.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar (10 kB at 2.8 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/toolchain/2.2.1/maven-toolchain-2.2.1.jar (38 kB at 9.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar (316 kB at 68 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom (3.1 kB at 8.7 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom (2.5 kB at 7.0 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar (85 kB at 155 kB/s)

[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.038 s - in com.mycompany.app.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) @ my-app ---
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar (154 kB at 219 kB/s)
[INFO] Building jar: E:\Eclipse\Eclipse-workspace\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 35.938 s
[INFO] Finished at: 2021-03-18T10:20:15+05:30
[INFO]
[INFO] -----
E:\Eclipse\Eclipse-workspace\my-app>

```

Step 4: Now the newly created jar file can be tested with the following command which will print the Hello World! output.

```
java -cp target/my-app-1.0-SNAPSHOT.jar com.mycompany.app.App
```

```
C:\WINDOWS\system32\cmd.exe

E:\Eclipse\Eclipse-workspace\my-app>java -cp target/my-app-1.0-SNAPSHOT.jar com.mycompany.app.App
Hello World!

E:\Eclipse\Eclipse-workspace\my-app>
```

Step 5: Now if there are some new changes in the project, we can create a new jar file with the new changes with the following command.

```
mvn clean dependency:copy-dependencies package
```

The command will clean the project, copy dependencies, and package the project, executing all phases up to package.

```
C:\WINDOWS\system32\cmd.exe

E:\Eclipse\Eclipse-workspace\my-app>mvn clean dependency:copy-dependencies package
[INFO] Scanning for projects...
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.pom (5.2 kB at 4.0 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.jar (30 kB at 65 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.5.2/maven-install-plugin-2.5.2.pom (6.4 kB at 11 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.5.2/maven-install-plugin-2.5.2.jar (33 kB at 66 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.8.2/maven-deploy-plugin-2.8.2.pom (7.1 kB at 14 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.8.2/maven-deploy-plugin-2.8.2.jar (34 kB at 67 kB/s)
[INFO] --- com.mycompany.app:my-app ---
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] --- [ jar ] ---
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ my-app ---
[INFO] Deleting E:\Eclipse\Eclipse-workspace\my-app\target
[INFO] --- maven-dependency-plugin:2.8:copy-dependencies (default-cli) @ my-app ---
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-sink-api/1.0-alpha-10/doxia-sink-api-1.0-alpha-10.pom (1.3 kB at 2.8 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-sink-api/1.0-alpha-10/doxia-sink-api-1.0-alpha-10.jar (9.2 kB at 5.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/6/maven-parent-6.pom (20 kB at 49 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-impl/2.0.5/maven-reporting-impl-2.0.5.pom (4.2 kB at 2.4 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-impl/2.0.5/maven-reporting-impl-2.0.5.jar (2.0 kB at 4.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-core/1.0/doxia-core-1.0.pom (2.4 kB at 6.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-core/1.0/doxia-core-1.0.jar (8.1 kB at 20 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-velocity/1.1.7/plexus-velocity-1.1.7.pom (2.0 kB at 4.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-velocity/1.1.7/plexus-velocity-1.1.7.jar (2.0 kB at 4.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-20/plexus-container-default-1.0-alpha-20.pom (3.0 kB at 7.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-20/plexus-container-default-1.0-alpha-20.jar (1.9 kB at 5.0 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-classworlds/1.2-alpha-7/plexus-classworlds-1.2-alpha-7.pom (2.4 kB at 6.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-classworlds/1.2-alpha-7/plexus-classworlds-1.2-alpha-7.jar (2.4 kB at 6.7 kB/s)
```



```

C:\WINDOWS\system32\cmd.exe
Download from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus-utils/3.0.9/plexus-utils-3.0.9.jar (232 kB at 54 kB/s)
Download from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/1.4/maven-common-artifact-filters-1.4.jar
Download from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/2.3/plexus-archiver-2.3.jar (186 kB at 43 kB/s)
Download from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-invoker/2.0.11/maven-invoker-2.0.11.jar
Download from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-dependency-tree/2.1/maven-dependency-tree-2.1.jar (60 kB at 13 kB/s)
Download from central: https://repo.maven.apache.org/maven2/asm/asm/3.3.1/asm-3.3.1.jar (44 kB at 9.6 kB/s)
Download from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-dependency-analyzer/1.4/maven-dependency-analyzer-1.4.jar (27 kB at 5.9 kB/s)
Download from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/1.4/maven-common-artifact-filters-1.4.jar (32 kB at 6.7 kB/s)
Download from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-invoker/2.0.11/maven-invoker-2.0.11.jar (29 kB at 6.1 kB/s)
[INFO] Copying junit-4.11.jar to E:\Eclipse\Eclipse-workspace\my-app\target\dependency\junit-4.11.jar
[INFO] Copying hamcrest-core-1.3.jar to E:\Eclipse\Eclipse-workspace\my-app\target\dependency\hamcrest-core-1.3.jar
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\Eclipse\Eclipse-workspace\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to E:\Eclipse\Eclipse-workspace\my-app\target\classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\Eclipse\Eclipse-workspace\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to E:\Eclipse\Eclipse-workspace\my-app\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Time elapsed: 0.061 s - in com.mycompany.app.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) @ my-app ---
[INFO] Building jar: E:\Eclipse\Eclipse-workspace\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 52.637 s
[INFO] Finished at: 2021-03-18T10:30:05+05:30
[INFO]
[INFO]
E:\Eclipse\Eclipse-workspace\my-app

```

Step 6: We can also generate a site documentation of the project using the following command.

mvn site

```
C:\WINDOWS\system32\cmd.exe

E:\Eclipse\workspace\my-app>mvn site

[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-site-plugin:3.7.1:site (default-site) @ my-app ---
[INFO] configuring report plugin org.apache.maven.plugins:maven-project-info-reports-plugin:3.0.0
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-project-info-reports-plugin/3.0.0/maven-project-info-reports-plugin-3.0.0.pom (20 kB at 16 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-project-info-reports-plugin/3.0.0/maven-project-info-reports-plugin-3.0.0.jar (300 kB at 326 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-artifact-transfer/0.9.1/maven-artifact-transfer-0.9.1.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-artifact-transfer/0.9.1/maven-artifact-transfer-0.9.1.pom (7.6 kB at 20 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom (11 kB at 30 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-lightweight/3.1.0/wagon-http-lightweight-3.1.0.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-lightweight/3.1.0/wagon-http-lightweight-3.1.0.pom (2.6 kB at 7.4 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-providers/3.1.0/wagon-providers-3.1.0.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-providers/3.1.0/wagon-providers-3.1.0.pom (2.8 kB at 8.0 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon/3.1.0/wagon-3.1.0.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon/3.1.0/wagon-3.1.0.pom (21 kB at 58 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-shared/3.1.0/wagon-http-shared-3.1.0.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-shared/3.1.0/wagon-http-shared-3.1.0.pom (2.6 kB at 7.1 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/jsoup/jsoup/1.11.2/jsoup-1.11.2.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/jsoup/jsoup/1.11.2/jsoup-1.11.2.pom (8.2 kB at 23 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.5.5/httpclient-4.5.5.pom (6.2 kB at 17 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-client/4.5.5/httpcomponents-client-4.5.5.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-client/4.5.5/httpcomponents-client-4.5.5.pom (15 kB at 43 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent/10/httpcomponents-parent-10.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent/10/httpcomponents-parent-10.pom (34 kB at 91 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcore/4.4.9/httpcore-4.4.9.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcore/4.4.9/httpcore-4.4.9.pom (5.1 kB at 15 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-core/4.4.9/httpcomponents-core-4.4.9.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-core/4.4.9/httpcomponents-core-4.4.9.pom (13 kB at 36 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent/9.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent/9/httpcomponents-parent-9.pom (34 kB at 90 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.10/commons-codec-1.10.pom
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.10/commons-codec-1.10.pom (12 kB at 33 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/35/commons-parent-35.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/35/commons-parent-35.pom (58 kB at 149 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.7.25/slf4j-api-1.7.25.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.7.25/slf4j-api-1.7.25.pom (3.8 kB at 11 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-parent/1.7.25/slf4j-parent-1.7.25.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-parent/1.7.25/slf4j-parent-1.7.25.pom (14 kB at 37 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-provider-api/3.1.0/wagon-provider-api-3.1.0.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-provider-api/3.1.0/wagon-provider-api-3.1.0.pom (1.9 kB at 5.2 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-artifact-transfer/0.9.1/maven-artifact-transfer-0.9.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-shared/3.1.0/wagon-http-shared-3.1.0.jar
```

