Build and Release Management
LAB
File

Name: M Somasekhar

Roll No.: R171219014

SAP ID.: 500076405

Branch: B. Tech-CSE-DevOps-4th Sem

LAB-6

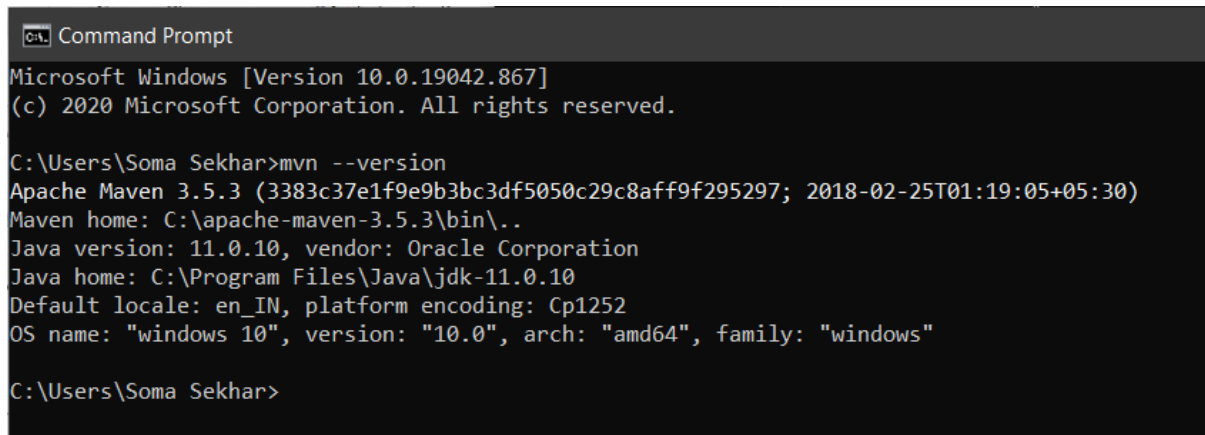DATE : 18th MAR 2021

LAB 6:

Aim: Create a simple maven project using CLI.
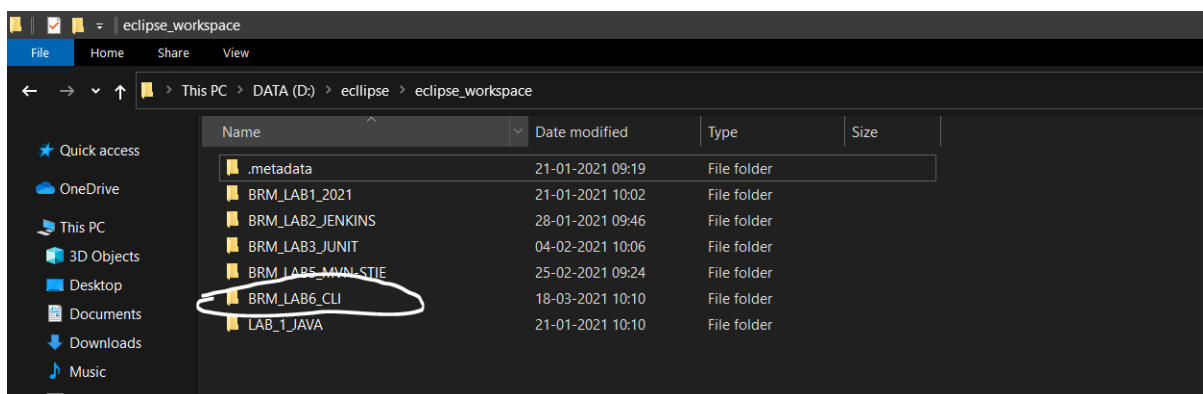
Procedure:

1. To check the mvn version use the command

"mvn –version"

2. Go into the workspace, and run the command

" mvn archetype:generate -DgroupId=com.mycompany.app -
DartifactId=BRM_LAB6_CLI -DarchetypeArtifactId=maven-
archetype-quickstart -DarchetypeVersion=1.4 -
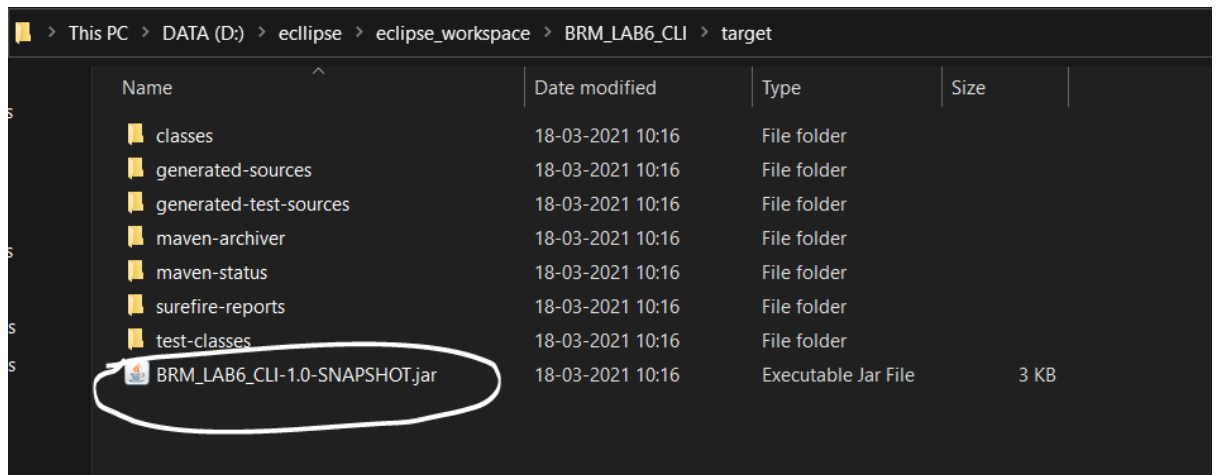DinteractiveMode=false "

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19042.867]
(c) 2020 Microsoft Corporation. All rights reserved.

D:\ecllipse\eclipse_workspace>mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=BRM_LAB6_CLI -DarchetypeAr
tifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.3/maven-site
-plugin-3.3.pom
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 19 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-an
trun-plugin-1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-ant
run-plugin-1.3.jar (24 kB at 74 kB/s)
Downloading 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
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 366 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/mave
n-dependency-plugin-2.8.jar
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 377 kB/s)
Downloading 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
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 174 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml
```

```
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/m
aven-archetype-bundles-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/ma
ven-archetype-bundles-1.4.pom (4.5 kB at 16 kB/s)
Downloading 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 25 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: BRM_LAB6_CLI
[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: BRM_LAB6_CLI
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: D:\ecllipse\eclipse_workspace\BRM_LAB6_CLI
[INFO] ----------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ----------------------------------------------------------------------
[INFO] Total time: 29.541 s
[INFO] Finished at: 2021-03-18T10:10:09+05:30
[INFO] ----------------------------------------------------------------------
←[0m←[0m
D:\ecllipse\eclipse_workspace>
```


3. Now to build the project we can use the command "mvn package"

```
C:\Windows\System32\cmd.exe                                                    —    □    X

D:\ecllipse\eclipse_workspace\BRM_LAB6_CLI>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] --------------------< com.mycompany.app:BRM_LAB6_CLI >--------------------
[INFO] Building BRM_LAB6_CLI 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/ma
en-resources-plugin-3.0.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/mav
n-resources-plugin-3.0.2.pom (7.1 kB at 7.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-
0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-3
.pom (10 kB at 33 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/ma
en-resources-plugin-3.0.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/mav
n-resources-plugin-3.0.2.jar (32 kB at 97 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/mav
n-compiler-plugin-3.8.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/mave
-compiler-plugin-3.8.0.pom (12 kB at 43 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-
2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-3
.pom (11 kB at 37 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/32/maven-parent-32.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/32/maven-parent-32.pom (43
B at 136 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/20/apache-20.pom
```

```
C:\Windows\System32\cmd.exe                                                    —    □    X

re-providers-2.22.1.pom (2.5 kB at 9.1 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
Downloaded 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 238 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: 0.053 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) @ BRM_LAB6_CLI ---
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-sh
ared-utils-3.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-sha
red-utils-3.0.1.jar (154 kB at 498 kB/s)
[INFO] Building jar: D:\ecllipse\eclipse_workspace\BRM_LAB6_CLI\target\BRM_LAB6_CLI-1.0-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 24.261 s
[INFO] Finished at: 2021-03-18T10:16:24+05:30
[INFO] ------------------------------------------------------------------------
```

4. Running the java code from the project

"java -cp target/BRM_LAB6_CLI-1.0-SNAPSHOT.jar com.mycompany.app.App"

RESULT:

Thus, successfully, created a maven project through CLI.