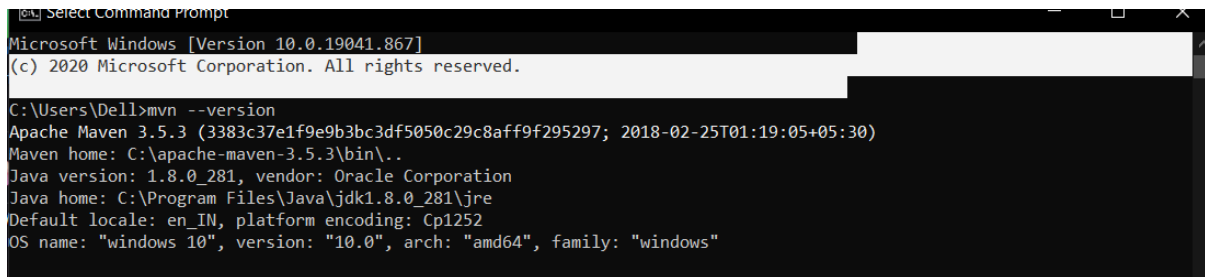


## LAB EXPERIMENT -6

### AIM - Creating Maven sample project using CLI

1. Always check for version of maven and Java installed in the system using command

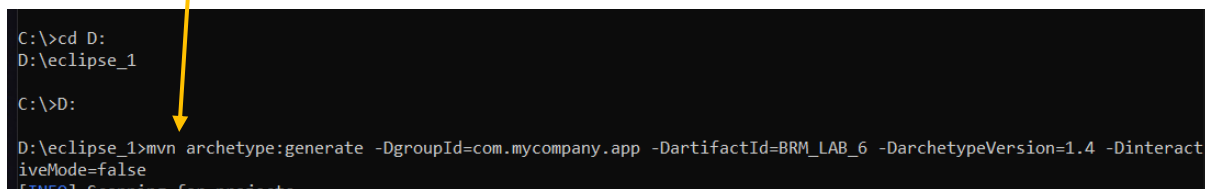
“mvn --version”



```
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

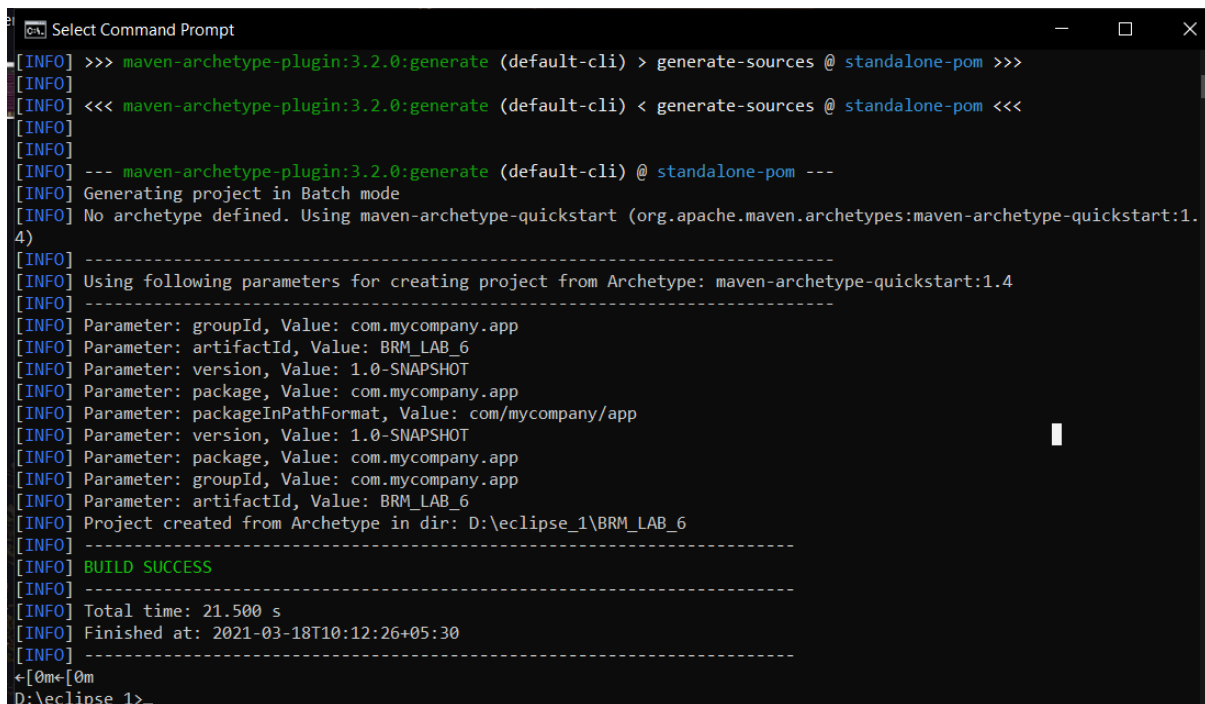
C:\Users\Dell>mvn --version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T01:19:05+05:30)
Maven home: C:\apache-maven-3.5.3\bin\..
Java version: 1.8.0_281, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk1.8.0_281\jre
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

2. Shift to your workspace and provide that path in your respective cmd and then folder with the respective command shown below (here we are using project by default created in maven)



```
C:\>cd D:
D:\>cd eclipse_1
C:\>D:
D:\eclipse_1>mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=BRM_LAB_6 -DarchetypeVersion=1.4 -DinteractiveMode=false
[INFO] Scanning for projects...
```

3. After this a folder will be created and there will be a java program to print “Hello World!”



```
[INFO] >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO] No archetype defined. Using maven-archetype-quickstart (org.apache.maven.archetypes:maven-archetype-quickstart:1.4)
[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_LAB_6
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: packageInPathFormat, Value: com/mycompany/app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: BRM_LAB_6
[INFO] Project created from Archetype in dir: D:\eclipse_1\BRM_LAB_6
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 21.500 s
[INFO] Finished at: 2021-03-18T10:12:26+05:30
[INFO] -----
D:\eclipse_1>
```

4. Move to your respective folder created here it is "BRM\_LAB\_6" and run command "mvn package"(test included in this)

```
Command Prompt
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 88 kB/s)
[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: 0.061 s - in com.mycompany.app.AppTest
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ BRM_LAB_6 ---
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
Downloaded 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 141 kB/s)
[INFO] Building jar: D:\eclipse_1\BRM_LAB_6\target\BRM_LAB_6-1.0-SNAPSHOT.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:02 min
[INFO] Finished at: 2021-03-18T10:16:58+05:30
[INFO] -----
```

5. Runnig the java prog.

```
[INFO] Total time: 01:02 min
[INFO] Finished at: 2021-03-18T10:16:58+05:30
[INFO] -----
D:\eclipse_1\BRM_LAB_6> java -cp target\BRM_LAB_6-1.0-SNAPSHOT.jar com.mycompany.app.App
Hello World!
```

6. Creating site for info of this project by command "mvn site"

```
Command Prompt
[INFO] Generating "Dependencies" report --- maven-project-info-reports-plugin:3.0.0:dependencies
[INFO] Generating "Dependency Information" report --- maven-project-info-reports-plugin:3.0.0:dependency-info
[INFO] Generating "About" report --- maven-project-info-reports-plugin:3.0.0:index
[INFO] Generating "Plugin Management" report --- maven-project-info-reports-plugin:3.0.0:plugin-management
Downloading 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
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 2.9 kB/s)
Downloading 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
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 9.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/25/maven-plugins-25.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/25/maven-plugins-25.pom (9.6 kB at 13 kB/s)
Downloading 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
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 8.4 kB/s)
[INFO] Generating "Plugins" report --- maven-project-info-reports-plugin:3.0.0:plugins
[INFO] Generating "Summary" report --- maven-project-info-reports-plugin:3.0.0:summary
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 36.260 s
[INFO] Finished at: 2021-03-18T10:19:16+05:30
[INFO] -----
```

7. Respective site e.g.

BRM\_LAB\_6

Last Published: 2021-03-18 | Version: 1.0-SNAPSHOTBRM\_LAB\_6

Project Documentation

Project Information

Dependencies

**Information**


About

Plugin Management

Plugins

Summary

Built by



Dependency Information

Apache Maven

```
<dependency>
  <groupId>com.mycompany.app</groupId>
  <artifactId>BRM_LAB_6</artifactId>
  <version>1.0-SNAPSHOT</version>
</dependency>
```

Apache Buildr

```
'com.mycompany.app:BRM_LAB_6:jar:1.0-SNAPSHOT'
```

Apache Ivy

```
<dependency org="com.mycompany.app" name="BRM_LAB_6" rev="1.0-SNAPSHOT">
  <artifact name="BRM_LAB_6" type="jar" />
</dependency>
```