

## BRM LAB-6

### Aim: Create a simple Maven Project using CLI.

Download and install Maven and run the following command to ensure that it is properly installed

```
Command Prompt
Microsoft Windows [Version 10.0.18363.1082]
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C:\Users\pc>mvn --version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T01:19:05+05:30)
Maven home: E:\Maven\apache-maven-3.5.3\bin\..
Java version: 1.8.0_111, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk1.8.0_111\jre
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\pc>cd C:\Users\pc\eclipse-workspace
```

Create a simple maven project using the following commands

```
Command Prompt
C:\Users\pc>cd C:\Users\pc\eclipse-workspace

C:\Users\pc>mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=brm.lab6 -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/3.1/maven-site-plugin-3.1.pom (121 KB at 9.8 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.1/maven-site-plugin-3.1.pom (121 KB at 9.8 KB/s)
Downloading 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 42 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 42 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 (289 KB at 218 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 (289 KB at 218 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.jar (353 KB at 244 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 (353 KB at 244 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 (53 KB at 113 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 113 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (20 KB at 44 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (14 KB at 16 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (14 KB at 16 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml (909 B at 2.3 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml (909 B at 2.3 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/1.2.0/maven-archetype-plugin-1.2.0.pom (11 KB at 25 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/1.2.0/maven-archetype-plugin-1.2.0.pom (11 KB at 25 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/1.2.0/maven-archetype-1.2.0.pom (12 KB at 27 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/1.2.0/maven-archetype-1.2.0.pom (12 KB at 27 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/1.2.0/maven-archetype-plugin-1.2.0.jar (97 KB at 132 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/1.2.0/maven-archetype-plugin-1.2.0.jar (97 KB at 132 KB/s)

[INFO]
[INFO] -----< org.apache.maven:standalone-pom -----
[INFO] Building Maven Stub Project (No POM) 1
[INFO]
[INFO] [ pom ]
[INFO]
[INFO] >>> mvn archetype:plugin:1.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< mvn archetype:plugin:1.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- mvn:archetype:plugin:1.2.0:generate (default-cli) @ standalone-pom ---
```



```
Command Prompt
[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: 0.037 s - in com.mycompany.app.AppTest
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.0.1:jar (default-jar) @ brw.lab6 ---
[INFO] 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
[INFO] 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 (134 kB at 228 kB/s)
[INFO] Building jar: C:\Users\pc\eclipse-workspace\brw.lab6\target\brw.lab6-1.0-SNAPSHOT.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:25 min
[INFO] Finished at: 2021-03-18T09:57:41+05:30
[INFO] -----
```

Test the newly compiled and packaged JAR with the following command

```
Command Prompt
C:\Users\pc\eclipse-workspace\brw.lab6>java -cp target\brw.lab6-1.0-SNAPSHOT.jar com.mycompany.app.App
Hello World!

C:\Users\pc\eclipse-workspace\brw.lab6>
```