BRM LAB-6(MVN-CLI)

Submitted by: Anshuman Mishra

- ## CHECK IF MAVEN IS INSTALLED IN YOUR SYSTEM

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

C:\Users\Anshuman Mishra>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_271, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk1.8.0_271\jre
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\Anshuman Mishra>
```

- ## CREATE A MAVEN-PROJECT AS FOLLOWS

```
C:\Users\Anshuman Mishra>cd eclipse-workspace

C:\Users\Anshuman Mishra\eclipse-workspace>mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=BRM_LAB6_2021 -DarchetypeVersion=1.4 -DinteractiveMode=false
[INFO] Scanning for projects...
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
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (20 kB at 15 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (14 kB at 10 kB/s)
Downloading 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 2.0 kB/s)
Downloading 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 21 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/3.2.0/maven-archetype-3.2.0.pom
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 23 kB/s)
Downloading 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
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 105 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]
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
```

```
[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_2021
[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_LAB6_2021
[INFO] Project created from Archetype in dir: C:\Users\Anshuman Mishra\eclipse-workspace\BRM_LAB6_2021
[INFO] ----------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ----------------------------------------------------------------------------
[INFO] Total time: 50.866 s
[INFO] Finished at: 2021-03-18T09:55:17+05:30
[INFO] ----------------------------------------------------------------------------
C:\Users\Anshuman Mishra\eclipse-workspace>
```

- **NOW BUILD THE PROJECT USING MVN PACKAGE**

```
Command Prompt
[INFO] ------------------------------------------------------------------------
←[0m←[0m
C:\Users\Anshuman Mishra\eclipse-workspace>cd BRM_LAB6_2021

C:\Users\Anshuman Mishra\eclipse-workspace\BRM_LAB6_2021>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] -----------------< com.mycompany.app:BRM_LAB6_2021 >------------------
[INFO] Building BRM_LAB6_2021 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
```

```
[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: 0.037 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_2021 ---
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 306 kB/s)
[INFO] Building jar: C:\Users\Anshuman Mishra\eclipse-workspace\BRM_LAB6_2021\target\BRM_LAB6_2021-1.0-SNAPSHOT.jar
[INFO] -------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] -------------------------------------------------------------
[INFO] Total time: 55.873 s
[INFO] Finished at: 2021-03-18T09:57:18+05:30
[INFO] -------------------------------------------------------------

C:\Users\Anshuman Mishra\eclipse-workspace\BRM_LAB6_2021>
```

- **TESTING THE NEWLY COMPILED AND PACKAGED JAR**

```
C:\Users\Anshuman Mishra\eclipse-workspace\BRM_LAB6_2021>java -cp target/BRM_LAB6_2021-1.0-SNAPSHOT.jar com.mycompany.app.App
Hello World!

C:\Users\Anshuman Mishra\eclipse-workspace\BRM_LAB6_2021>
```