

BUILD AND RELEASE MANAGEMENT LAB

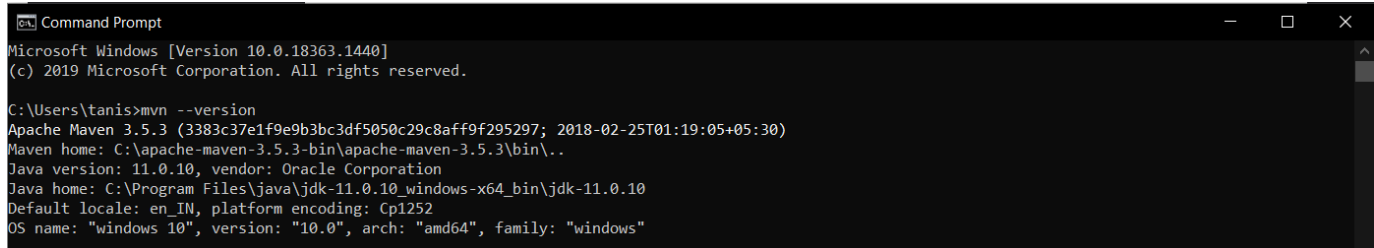
**LAB 6
18th MARCH**

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DEVOPS 2ND YEAR
4th SEMESTER**

Aim: Create a simple Maven Project using CLI

PROCEDURE:

- To check the version of maven, we use the command `mvn --version`



```
Command Prompt
Microsoft Windows [Version 10.0.18363.1440]
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C:\Users\tanis>mvn --version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T01:19:05+05:30)
Maven home: C:\apache-maven-3.5.3-bin\apache-maven-3.5.3\bin\..
Java version: 11.0.10, vendor: Oracle Corporation
Java home: C:\Program Files\java\jdk-11.0.10_windows-x64_bin\jdk-11.0.10
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

Creating a Project

- Change the directory to eclipse-workspace directory
- Use the command to create a new project

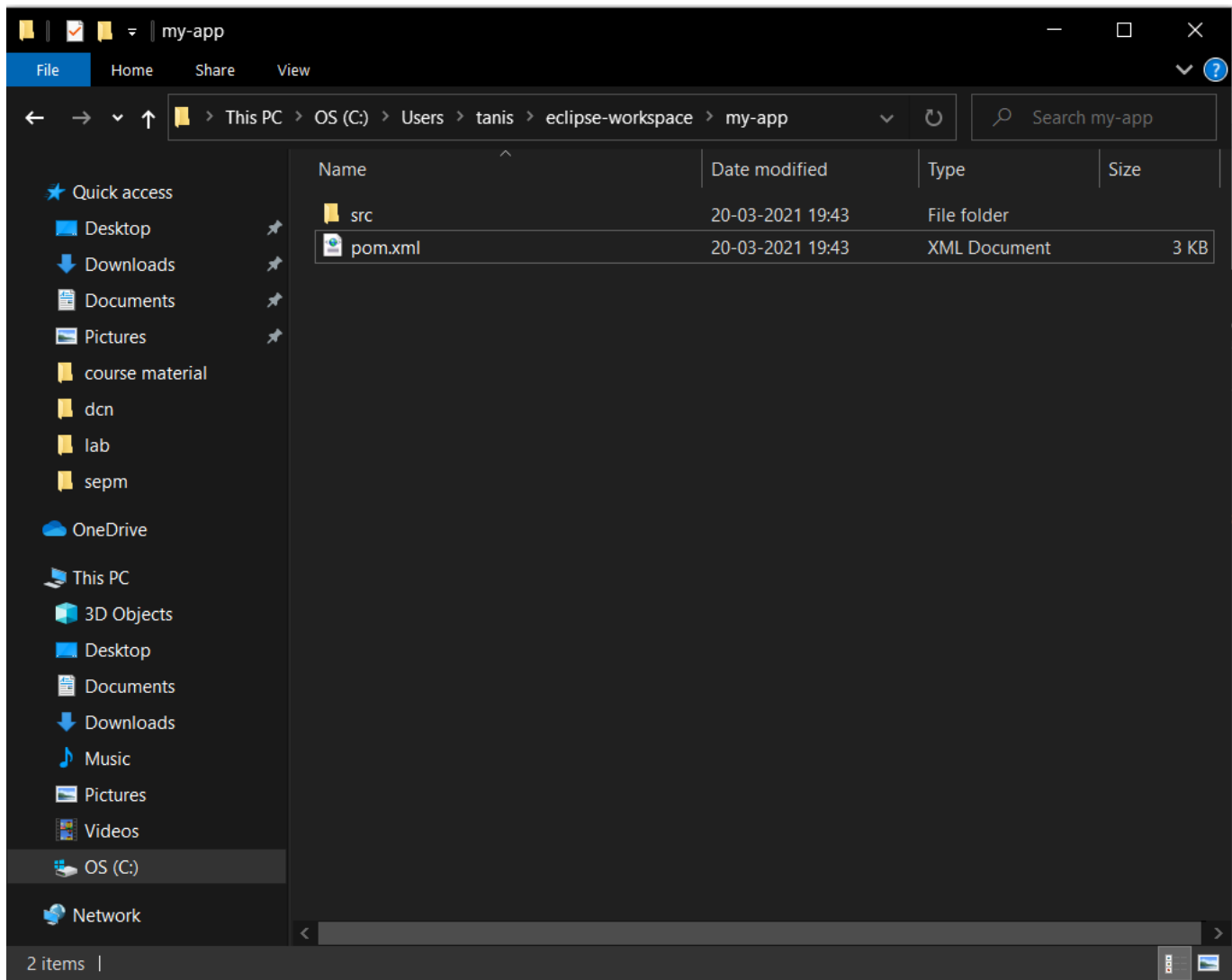
```
Command Prompt

C:\Users\tanis>cd C:\Users\tanis\workspace

C:\Users\tanis\workspace>mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=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 (21 kB at 14 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.pom (21 kB at 14 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 63 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 63 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 (209 kB at 319 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 319 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 (153 kB at 302 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 302 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 159 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 159 kB/s)
Downloading 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/apache/maven/plugins/maven-metadata.xml
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (14 kB at 45 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (14 kB at 45 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (20 kB at 33 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (20 kB at 33 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml (949 B at 3.0 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml (949 B at 3.0 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 (11 kB at 35 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 (11 kB at 35 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 (12 kB at 36 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 36 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 (97 kB at 189 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 189 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 ---
Downloading 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 6.0 kB/s)
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 6.0 kB/s)
Downloading 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 8.2 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 (2.7 kB at 8.2 kB/s)
Downloading 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 6.3 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 6.3 kB/s)
Downloading 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 46 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 46 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom (19 kB at 57 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom (19 kB at 57 kB/s)
Downloading 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/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.pom (6.8 kB at 19 kB/s)
[INFO]
[INFO] Generating project in Batch mode
Downloading 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 4.1 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.pom (1.6 kB at 4.1 kB/s)
Downloading 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 14 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 (4.5 kB at 14 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 (7.1 kB at 21 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 (7.1 kB at 21 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: C:\Users\tanis\workspace\my-app
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 40.233 s
[INFO] Finished at: 2021-03-20T19:43:21+05:30
[INFO]
```

- Change your directory to the project that you created

In the eclipse-workspace, inside your project, you can see that a src folder and pom.xml file is created



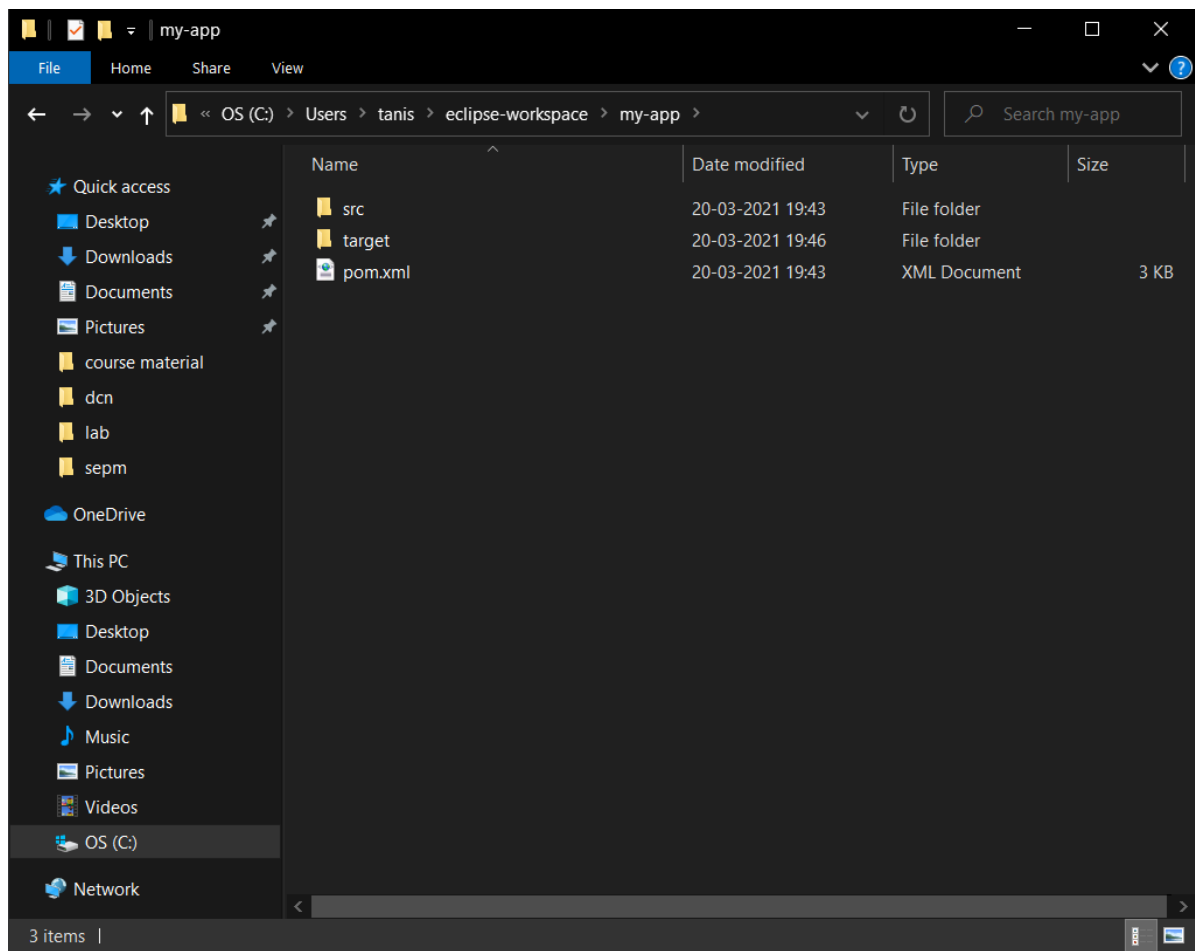
Build the Project

- We can use the mvn package command to generate a jar file for our project. This jar file is created inside the target folder

```
Command Prompt

C:\Users\tanis\workspace\my-app>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-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/maven-resources-plugin-3.0.2.pom (7.1 kB at 6.9 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom
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Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar
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Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-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/maven-compiler-plugin-3.8.0.pom (12 kB at 38 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom (11 kB at 28 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 kB at 117 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/20/apache-20.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/20/apache-20.pom (16 kB at 45 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.jar (62 kB at 168 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.pom (5.0 kB at 14 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-2.22.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-2.22.1.pom (26 kB at 78 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.jar (41 kB at 108 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom (6.2 kB at 19 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar (27 kB at 81 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.pom
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.pom (2.3 kB at 6.6 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.jar
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.jar (245 kB at 459 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom (748 B at 2.3 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/1.6/plexus-containers-1.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/1.6/plexus-containers-1.6.pom (3.8 kB at 12 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.3.2/plexus-3.3.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.3.2/plexus-3.3.2.pom (22 kB at 64 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.1.1/maven-filtering-3.1.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.1.1/maven-filtering-3.1.1.pom (5.7 kB at 18 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.0/maven-shared-utils-3.0.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.0/maven-shared-utils-3.0.0.pom (5.6 kB at 17 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-build-api/0.0.7/plexus-build-api-0.0.7.pom
```

```
Command Prompt
Downloaded 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 199 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.11/plexus-interpolation-1.11.jar (51 kB at 30 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-jdk14/1.5.6/slf4j-jdk14-1.5.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar
Downloaded 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 48 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/jcl-over-slf4j/1.5.6/jcl-over-slf4j-1.5.6.jar
Downloaded 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 97 kB/s)
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Downloaded 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 4.4 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar (22 kB at 11 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar
Downloaded 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 7.8 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar
Downloaded 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 12 kB/s)
Downloaded 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 5.8 kB/s)
Downloaded 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 4.5 kB/s)
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Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar (316 kB at 124 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom
Downloaded 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 9.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom
Downloaded 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 7.6 kB/s)
Downloaded 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 255 kB/s)
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Skipped: 0, Time elapsed: 0.05 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 ---
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
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 397 kB/s)
[INFO] Building jar: C:\Users\tanis\workspace\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 31.307 s
[INFO] Finished at: 2021-03-20T19:46:35+05:30
[INFO]
[INFO] -----
```



- To check our compiled and packaged JAR file, we can use the following command

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

```
C:\Users\tanis\eclipse-workspace\my-app>_
```