

EXPERIMENT 6

Aim: Create a simple Maven Project using Command Line Interface (CLI)

First, download Maven and follow the installation instructions. After that, type the following in a terminal or in a command prompt:

```
C:\Users\Pranit Gupta>mvn --version
Apache Maven 3.5.0 (ff8f5e7444045639af65f6095c62210b5713f426; 2017-04-04T01:09:06+05:30)
Maven home: C:\Program Files\apache-maven-3.5.0\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"
```

CREATING A PROJECT

You will need somewhere for your project to reside, create a directory somewhere and start a shell in that directory. On your command line, execute the following Maven goal:

```
C:\Users\Pranit Gupta\eclipse-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: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.3/maven-site-plugin-3.3.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin-3.3.pom (21 kB at 7.5 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-antrun-plugin-1.3.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin-1.3.jar (24 kB at 31 kB/s)
Downloading: 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: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin-2.2-beta-5.jar (209 kB at 134 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin-2.8.jar (153 kB at 126 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.3.2/maven-release-plugin-2.3.2.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin-2.3.2.pom (9.3 kB at 13 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-release/2.3.2/maven-release-2.3.2.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-release/2.3.2/maven-release-2.3.2.pom (8.6 kB at 13 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.3.2/maven-release-plugin-2.3.2.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin-2.3.2.jar (44 kB at 56 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (14 kB at 20 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (20 kB at 14 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/maven-metadata.xml (949 B at 1.4 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-archetype-plugin/3.2.0/maven-archetype-plugin-3.2.0.pom
Downloaded: 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 15 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/3.2.0/maven-archetype-3.2.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype/3.2.0/maven-archetype-3.2.0.pom (12 kB at 16 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-descriptor/3.2.0/archetype-descriptor-3.2.0.pom
Downloaded: 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 2.8 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-common/3.2.0/archetype-common-3.2.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-common/3.2.0/archetype-common-3.2.0.pom (17 kB at 23 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom (19 kB at 24 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.pom

[INFO] -----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----
[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 ---
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-catalog/3.2.0/archetype-catalog-3.2.0.pom
Downloaded: 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 2.9 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-models/3.2.0/archetype-models-3.2.0.pom
Downloaded: 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 4.1 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-descriptor/3.2.0/archetype-descriptor-3.2.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-descriptor/3.2.0/archetype-descriptor-3.2.0.pom (12 kB at 16 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-common/3.2.0/archetype-common-3.2.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/archetype-common/3.2.0/archetype-common-3.2.0.pom (17 kB at 23 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.16/groovy-2.4.16.pom (19 kB at 24 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/ivy/ivy/2.5.0/ivy-2.5.0.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: 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: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: my-app
[INFO] Project created from Archetype in dir: C:\Users\Pranit Gupta\eclipse-workspace\my-app
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:13 min
[INFO] Finished at: 2021-03-18T09:52:58+05:30
[INFO] Final Memory: 15M/113M
[INFO] -----
```

CHANGE DIRECTORY TO THE FOLDER OF YOUR PROJECT

cd my-app

THE POM

We need to change the pom.xml for building the project

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.mycompany.app</groupId>
  <artifactId>my-app</artifactId>
  <version>1.0-SNAPSHOT</version>

  <name>my-app</name>
  <!-- FIXME change it to the project's website -->
  <url>http://www.example.com</url>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.compiler.source>1.7</maven.compiler.source>
    <maven.compiler.target>1.7</maven.compiler.target>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.11</version>
      <scope>test</scope>
    </dependency>
  </dependencies>

  <build>
    <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
      <plugins>
        <!-- clean lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#clean_lifecycle -->
        <plugin>
          <artifactId>maven-clean-plugin</artifactId>
          <version>3.1.0</version>
        </plugin>
        <!-- default lifecycle, jar packaging: see https://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin_bindings_for_jar_packaging -->
        <plugin>
          <artifactId>maven-resources-plugin</artifactId>
          <version>3.0.2</version>
        </plugin>
        <plugin>
          <artifactId>maven-compiler-plugin</artifactId>
          <version>3.8.0</version>
        </plugin>
      </plugins>
    </pluginManagement>

    <plugins>
      <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.8.0</version>
      </plugin>
      <plugin>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>2.22.1</version>
      </plugin>
      <plugin>
        <artifactId>maven-jar-plugin</artifactId>
        <version>3.0.2</version>
      </plugin>
      <plugin>
        <artifactId>maven-install-plugin</artifactId>
        <version>2.5.2</version>
      </plugin>
      <plugin>
        <artifactId>maven-deploy-plugin</artifactId>
        <version>2.8.2</version>
      </plugin>
      <!-- site lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#site_Lifecycle -->
      <plugin>
        <artifactId>maven-site-plugin</artifactId>
        <version>3.7.1</version>
      </plugin>
      <plugin>
        <artifactId>maven-project-info-reports-plugin</artifactId>
        <version>3.0.0</version>
      </plugin>
    </plugins>
  </build>
</project>
```

BUILD THE PROJECT

```
C:\Users\Pranit Gupta\workspace\my-app>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.pom
Downloaded: 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 3.5 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom (10 kB at 14 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar (32 kB at 41 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.pom
Downloaded: 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 19 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom (11 kB at 17 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/32/maven-parent-32.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/32/maven-parent-32.pom (43 kB at 59 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/apache/20/apache-20.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/apache/20/apache-20.pom (16 kB at 25 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.jar
Downloaded: 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 88 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.pom
Downloaded: 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 7.9 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-2.22.1.pom
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-2.22.1.pom (26 kB at 38 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.jar
Downloaded: 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 58 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom
Downloaded: 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 9.8 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar
Downloaded: 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 40 kB/s)
Downloading: https://repo.maven.apache.org/maven2/junit/junit4.11/junit-4.11.pom
Downloaded: https://repo.maven.apache.org/maven2/junit/junit4.11/junit-4.11.pom (2.3 kB at 3.8 kB/s)
Downloading: https://repo.maven.apache.org/maven2/junit/junit4.11/junit-4.11.jar
Downloaded: https://repo.maven.apache.org/maven2/junit/junit4.11/junit-4.11.jar (245 kB at 206 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom (748 B at 1.2 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/1.6/plexus-containers-1.6.pom
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/1.6/plexus-containers-1.6.pom (3.8 kB at 5.9 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.2/plexus-3.2.pom
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.2/plexus-3.2.pom (22 kB at 32 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.1.1/maven-filtering-3.1.1.pom
Downloaded: 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 8.7 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.0/maven-shared-utils-3.0.0.pom
Downloaded: 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 8.4 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-build-api/0.0.7/plexus-build-api-0.0.7.pom
Downloaded: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-build-api/0.0.7/plexus-build-api-0.0.7.pom (3.2 kB at 4.9 kB/s)
```

```
Downloaded: https://repo.maven.apache.org/maven2/backport-util-concurrent/backport-util-concurrent/3.1/backport-util-concurrent-3.1.jar (332 kB at 76 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar
Downloaded: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar (62 kB at 14 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-parameter-documenter/2.2.1/maven-plugin-parameter-documenter-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-parameter-documenter/2.2.1/maven-plugin-parameter-documenter-2.2.1.jar (22 kB at 5.0 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-jcl-over-slf4j/1.5.6/slf4j-jcl-over-slf4j-1.5.6.jar
Downloaded: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-jcl-over-slf4j/1.5.6/slf4j-jcl-over-slf4j-1.5.6.jar (17 kB at 3.3 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.2.1/maven-model-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.2.1/maven-model-2.2.1.jar (88 kB at 19 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.2.1/maven-repository-metadata-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.2.1/maven-repository-metadata-2.2.1.jar (8.8 kB at 1.9 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-error-diagnostics/2.2.1/maven-error-diagnostics-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-error-diagnostics/2.2.1/maven-error-diagnostics-2.2.1.jar (10 kB at 2.0 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar (4.4 kB at 4.4 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar
Downloaded: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar (22 kB at 4.4 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar (17 kB at 3.3 kB/s)
Downloading: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar
Downloaded: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar (316 kB at 49 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-error-diagnostics/2.2.1/maven-error-diagnostics-2.2.1.jar
Downloaded: 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 2.5 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.2.1/maven-repository-metadata-2.2.1.jar
Downloaded: 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 4.9 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar (10 kB at 2.0 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar (38 kB at 6.4 kB/s)
Downloading: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar
Downloaded: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M8/qdox-2.0-M8.jar (316 kB at 49 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom
Downloaded: 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 5.2 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom
Downloaded: 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 4.1 kB/s)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar (85 kB at 113 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: 0.028 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 ---
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar
Downloaded: 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 169 kB/s)
[INFO] Building jar: C:\Users\Pranit Gupta\workspace\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 50.156 s
[INFO] Finished at: 2021-03-18T09:59:42+05:30
[INFO] Final Memory: 21M/187M
[INFO]
C:\Users\Pranit Gupta\workspace\my-app>
```

FOLDER VIEW AFTER BUILDING THE PROJECT

📁 > This PC > Windows (C:) > Users > Pranit Gupta > eclipse-workspace > my-app

	Name	Date modified	Type	Size
📁	src	18-03-2021 09:52	File folder	
📁	target	18-03-2021 09:59	File folder	
📄	pom.xml	18-03-2021 09:52	XML Document	3 KB

DEFAULT CODE IN com.myCompany.app.App

```
App - Notepad
File Edit Format View Help
package com.mycompany.app;

/**
 * Hello world!
 */
public class App
{
    public static void main( String[] args )
    {
        System.out.println( "Hello World!" );
    }
}
```

OUTPUT OF CODE

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

C:\Users\Pranit Gupta\eclipse-workspace\my-app>
```

