LAB-6

BUILD RELEASE AND MANAGEMENT

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Batch: DevOps 4th sem

Aim: Create a maven project using CLI.

Step 1: Open a CLI (Command Prompt), then check the maven version installed on your system using the following command.

mvn --version

After confirming maven, now change your directory to your preferred workspace for saving project files in it.

```
Command Prompt
Microsoft Windows [Version 10.0.19042.867]
(c) 2020 Microsoft Corporation. All rights reserved.

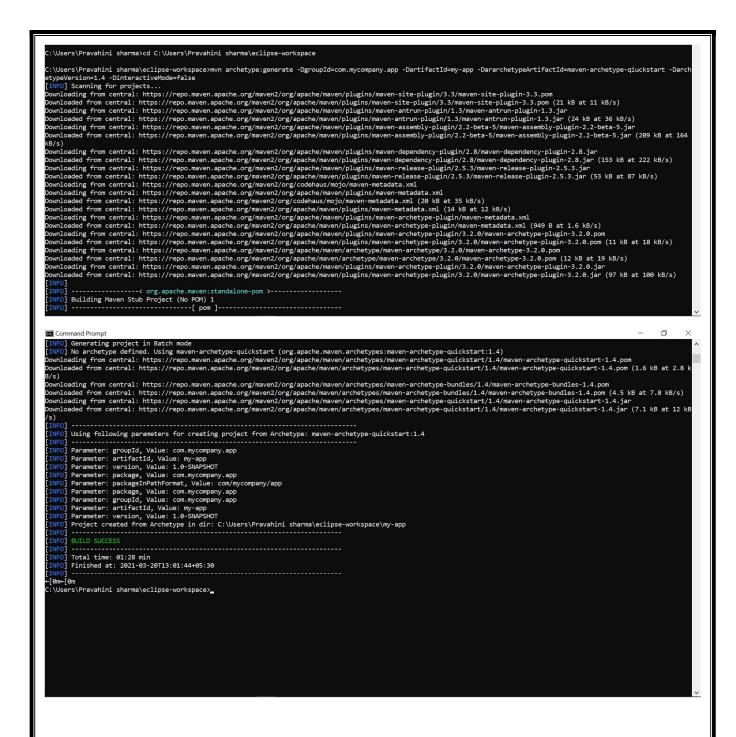
C:\Users\Pravahini sharma>mvn --version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T01:19:05+05:30)
Maven home: C:\apache-maven-3.5.3\bin\..
Java version: 11.0.9, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk-11.0.9
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\Pravahini sharma>_
```

Step 2: Now enter the following command to create a maven project.

mvn archetype:generate -DgroupId=com.mycompany.app - DartifactId=my-app - DarchetypeArtifactId=maven-archetype quickstart - DarchetypeVersion=1.4 -DinteractiveMode=false

The above command will create a maven project named as myapp which will have a Hello World java program created while the project was created.



Step 3: Once the project is created, change your directory to the project directory (here my-app) to work on the project. Now to build the project enter the following command.

mvn package

```
\Users\Pravahini sharma\eclipse-workspace>cd mv-app
                     rs\Pravahini sharma\eclipse-workspace\my-app>mvn package
Scanning for projects...
                    DownLoaded from central: https://repo.maven.apache.org/maven/jorg/apache/maven/plugins/32/maven-parent-32.pom (11 kB at 17 kB/s)
DownLoaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/32/maven-parent-32.pom (43 kB at 62 kB/s)
DownLoaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/32/maven-parent-32.pom (43 kB at 62 kB/s)
DownLoaded 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 24 kB/s)
DownLoaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/20/apache-20.pom (16 kB at 24 kB/s)
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
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
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
DownLoaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-2.22.1.jom (5.0 kB at 8.1 kB/s)
DownLoaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-2.22.1.jom (6.6 kB at 41 kB/s)
DownLoaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/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
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
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
DownLoaded from central: h
     NPO] --- maven-resources-plugin:3.8.2:resources (default-resources) @ my-app ---
wnloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom
wnloaded 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 1.2 kB/s)
wnloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/1.6/plexus-containers-1.6.pom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TI.
    womloaded 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 3.2 kB/s)
womloaded 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 1.9 kB/s)
womloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-eror-diagnostics/2.2.1/maven-eror-diagnostics-2.2.1.jar (13 kB at 2.4 kB/s)
womloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar (38 kB at 6.6 kB/s)
womloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.8-MB/qdox-2.0-MB.jar (316 kB at 58 kB/s)
womloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom
womloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom
     willoading from central: https://repo.maven.apache.org/maven/zorg/apache/maven/surerire/surerire-junit4/2.22.1.pom willoaded from central: https://repo.maven.apache.org/maven/zorg/apache/maven/surerire/surerire-junit4/2.22.1.pom (3.1 kB at 5.0 kB/s) willoading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom willoading 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 4.1 kB/s) willoading 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 118 kB/s) willoading 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 118 kB/s)
                     Running com.mycompany.app.AppTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.107 s - in com.mycompany.app.AppTest
                     Results:
       Total time: 52.807 s
Finished at: 2021-03-20T13:07:07+05:30
    \Users\Pravahini sharma\eclipse-workspace\my-app>_
```

Step 4: Now the newly created jar file can be tested with the following command which will print the Hello World! output.

java -cp target/my-app-1.0-SNAPSHOT.jar com.mycompany.app.App

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

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

Step 5: We can also generate a site documentation of the project using the following command.

mvn site

```
Command Prompt
      :\Users\Pravahini sharma\eclipse-workspace\my-app>mvn site INFO] Scanning for projects...
                                                          ----- com.mycompany.app:my-app >-----
                                                                                                 -----[ jar ]------
[INFO] --- maven-site-plugin:3.7.1:site (default-site) @ my-app ---
[INFO] configuring report plugin org.apache.maven.plugins:maven-project-info-reports-plugin:3.0.0
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-project-info-reports-plugin/3.0.0/maven-project-info-reports-plugin-3.0.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-project-info-reports-plugin/3.0.0/maven-project-info-reports-plugin-3.0.0.pom
20 kB at 11 kB/s)
  zo ko at 11 ko/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-project-info-reports-plugin/3.0.0/maven-project-info-reports-plugin-3.0.0.jar
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300 kB at 173 kB/s)
        ow No at 173 kb/s)

ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-artifact-transfer/0.9.1/maven-artifact-transfer-0.9.1.pom

ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-artifact-transfer/0.9.1/maven-artifact-transfer-0.9.1.pom (7.6 kB at 12 kB/s)

ownloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec-1.6.pom
     commonatoring from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec-(1.6./commons-codec-1.6.pom (11 kB at 19 kB/s) 
lownloadd from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec-1.6.pom (11 kB at 19 kB/s) 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-lightweight/3.1.0/wagon-http-lightweight-3.1.0.pom 
lownloadd from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-lightweight/3.1.0/wagon-http-lightweight-3.1.0.pom (2.6 kB at 4.3 kB/s) 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-providers/3.1.0/wagon-providers-3.1.0.pom 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-providers/3.1.0/wagon-providers-3.1.0.pom 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/agon/3.1.0/wagon-3.1.0.pom 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/3.1.0/wagon-3.1.0.pom 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/apache/3.1.0/wagon-3.1.0.pom 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/apache/3.1.0/wagon-3.1.0.pom 
lownloadding from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/apache/apache/maven/wagon/apache/apache/maven/wagon/apache/apache/maven/wagon/apache/apache/maven/wagon/apache/apache/maven/wagon/apache/apache/maven/apache/apache/maven/wagon/apache/apache/maven/apache/apache/ma
     Obunloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon/3.1.0/wagon-3.1.0.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon/3.1.0/wagon-3.1.0.pom (21 kB at 35 kB/s)

Dounloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-shared/3.1.0/wagon-http-shared-3.1.0.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/wagon/wagon-http-shared/3.1.0/wagon-http-shared-3.1.0.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/jsoup/jsoup/1.11.2/jsoup-1.11.2.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/jsoup/jsoup/1.11.2/jsoup-1.11.2.pom

Dounloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.5.5/httpclient-4.5.5.pom

Dounloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.5.5/httpclient-4.5.5/httpclient-4.5.5.pom

Dounloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-client/4.5.5/httpcomponents-client-4.5.5.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents-raperent/10/httpcomponents-client-4.5.5/httpcomponents-client-4.5.5.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents-raperent/10/httpcomponents-parent-10.pom

Dounloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent-10/httpcomponents-parent-10.pom

Dounloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent-10/httpcomponents-parent-10.pom

Dounloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent-10/httpcomponents-parent-10.pom

Dounloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents/httpcore-4.4.9.pom

Dounloading from central: https://repo.maven.ap
         ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcore/4.4.9/httpcore-4.4.9.pom (5.1 kB at 8.5 kB/s)
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-core/4.4.9/httpcomponents-core-4.4.9.pom
ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-core/4.4.9/httpcomponents-core-4.4.9.pom (13 kB at 22 kB/s)
         ownloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent/9/httpcomponents-parent-9.pom
ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcomponents-parent/9/httpcomponents-parent-9.pom (34 kB at 55 kB/s)
ownloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.10/commons-codec-1.10.pom
         ownloading 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
ownloaded 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 12 kB/s)
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/25/maven-plugins-25.pom
            wildoading from central: https://repo.maven.apache.org/maven/porg/apache/maven/plugins/maven-plugins/z5/maven-plugins-z5.pom
wildoaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/z5/maven-plugins-Z5.pom (9.6 kB at 13 kB/s)
wildoading 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
wildoaded from central: https://repo.maven.apache.org/maven2/org/maven2/org/apache/maven2/org/apache/maven2/org/apache/maven2/org/apache/maven2/org/apache/maven2/org/apache/maven2/org/apache/m
                                   Total time: 27.690 s
Finished at: 2021-03-20T13:18:08+05:30
         :\Users\Pravahini sharma\eclipse-workspace\my-app>_
```