MAVEN ASSIGMENT

1. Perform "mvn install" on the "maven-session" project.

```
F:\mave\maven-session>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -------------------< com.accolite.au:maven-session >--------------------
[INFO] Building maven-session 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ maven-session ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\mave\maven-session\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ maven-session ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ maven-session ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\mave\maven-session\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ maven-session ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ maven-session ---
[INFO]
[INFO] -------------------------------------------------------
[INFO]  T E S T S
[INFO] -------------------------------------------------------
[INFO] Running com.accolite.au.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.143 s - in com.accolite.au.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) @ maven-session ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ maven-session ---
[INFO] Installing F:\mave\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\Nandhini\.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-sessi
on-1.0-SNAPSHOT.jar
[INFO] Installing F:\mave\maven-session\pom.xml to C:\Users\Nandhini\.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
```
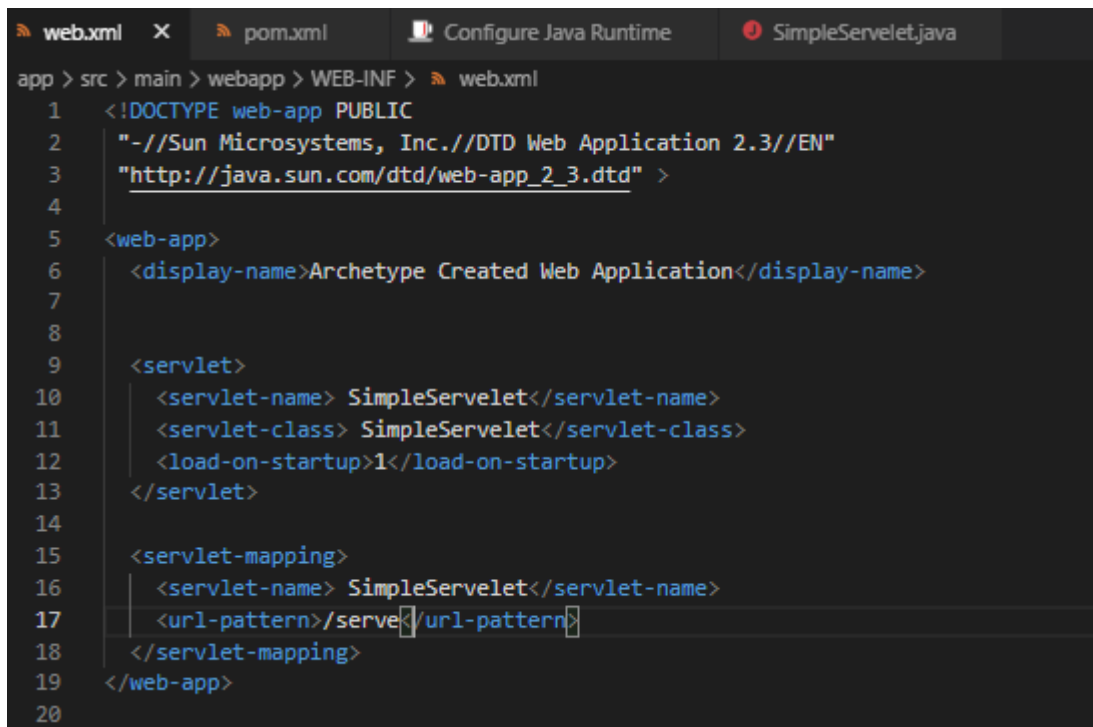
2. Create a web-app using the archetype plugin

mvn archetype:generate -DgroupId = com.accolite.au -DartifactId=app -DarchetypeArtifactId = maven-archetype-webapp

```
F:\mave\sample-web>mvn archetype:generate -DgroupId=com.accolite.au -DartifactId=app -DarchetypeArtifactId=maven-archetype-webapp
[INFO] Scanning for projects...
[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] Generating project in Interactive mode
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.pom (533 B at 935 B/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/2/maven-archetype-bundles-2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/2/maven-archetype-bundles-2.pom (1.5 kB at 3.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-parent/1/maven-archetype-parent-1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-parent/1/maven-archetype-parent-1.pom (1.3 kB at 2.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom (10.0 kB at 23 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.jar (3.9 kB at 9.6 kB/s)
```
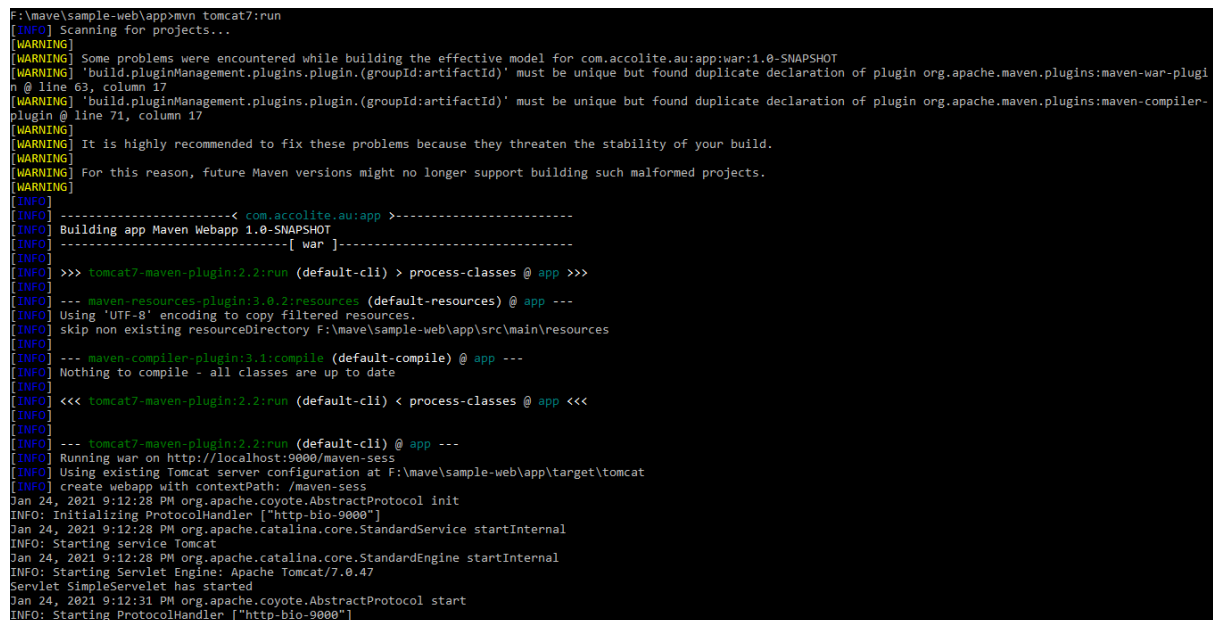
```
[INFO] Using property: groupId = com.accolite.au
[INFO] Using property: artifactId = app
Define value for property 'version' 1.0-SNAPSHOT: :
[INFO] Using property: package = com.accolite.au
Confirm properties configuration:
groupId: com.accolite.au
artifactId: app
version: 1.0-SNAPSHOT
package: com.accolite.au
 Y: :
[INFO] ----------------------------------------------------------------------------
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-webapp:1.0
[INFO] ----------------------------------------------------------------------------
[INFO] Parameter: basedir, Value: F:\mave\sample-web
[INFO] Parameter: package, Value: com.accolite.au
[INFO] Parameter: groupId, Value: com.accolite.au
[INFO] Parameter: artifactId, Value: app
[INFO] Parameter: packageName, Value: com.accolite.au
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: F:\mave\sample-web\app
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  16.693 s
[INFO] Finished at: 2021-01-24T19:02:51+05:30
[INFO] ------------------------------------------------------------------------

F:\mave\sample-web>
```

3. In the above created web-app add a sample servlet

```
web.xml  ✕    pom.xml    Configure Java Runtime    SimpleServelet.java

app > src > main > webapp > WEB-INF > web.xml
   1    <!DOCTYPE web-app PUBLIC
   2    "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
   3    "http://java.sun.com/dtd/web-app_2_3.dtd" >
   4
   5    <web-app>
   6       <display-name>Archetype Created Web Application</display-name>
   7
   8
   9       <servlet>
  10          <servlet-name> SimpleServelet</servlet-name>
  11          <servlet-class> SimpleServelet</servlet-class>
  12          <load-on-startup>1</load-on-startup>
  13       </servlet>
  14
  15       <servlet-mapping>
  16          <servlet-name> SimpleServelet</servlet-name>
  17          <url-pattern>/serve</url-pattern>
  18       </servlet-mapping>
  19    </web-app>
  20
```

4. Use tomcat maven plugin and run the web-app

```
F:\mave\sample-web\app>mvn tomcat7:run
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for com.accolite.au:app:war:1.0-SNAPSHOT
[WARNING] 'build.pluginManagement.plugins.plugin.(groupId:artifactId)' must be unique but found duplicate declaration of plugin org.apache.maven.plugins:maven-war-plugi
n @ line 63, column 17
[WARNING] 'build.pluginManagement.plugins.plugin.(groupId:artifactId)' must be unique but found duplicate declaration of plugin org.apache.maven.plugins:maven-compiler-
plugin @ line 71, column 17
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[WARNING]
[INFO]
[INFO] ------------------------< com.accolite.au:app >------------------------
[INFO] Building app Maven Webapp 1.0-SNAPSHOT
[INFO] --------------------------------[ war ]---------------------------------
[INFO]
[INFO] >>> tomcat7-maven-plugin:2.2:run (default-cli) > process-classes @ app >>>
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\mave\sample-web\app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< tomcat7-maven-plugin:2.2:run (default-cli) < process-classes @ app <<<
[INFO]
[INFO]
[INFO] --- tomcat7-maven-plugin:2.2:run (default-cli) @ app ---
[INFO] Running war on http://localhost:9000/maven-sess
[INFO] Using existing Tomcat server configuration at F:\mave\sample-web\app\target\tomcat
[INFO] create webapp with contextPath: /maven-sess
Jan 24, 2021 9:12:28 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9000"]
Jan 24, 2021 9:12:28 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 24, 2021 9:12:28 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Servlet SimpleServelet has started
Jan 24, 2021 9:12:31 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9000"]
```

← → C ⓘ localhost:9000/maven-sess/

Hello World!

← → C ⓘ localhost:9000/maven-sess/serve

`Hello World!`