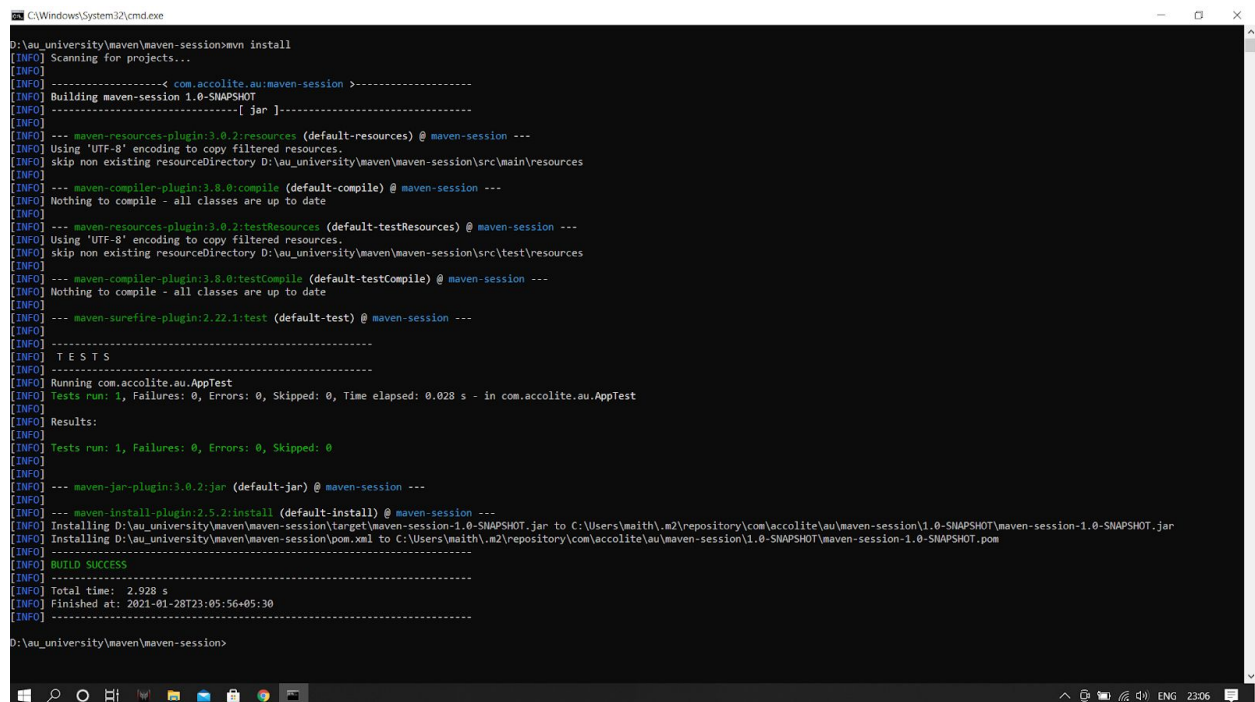


Maven Assignment

Maithreyan K

1. Perform "mvn install" on the "maven-session" project which was created during the session and share the screen-shots.



```
C:\Windows\System32\cmd.exe
D:\au_university\maven\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 D:\au_university\maven\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 D:\au_university\maven\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: 0.028 s - in com.accolite.au.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[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 D:\au_university\maven\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\maith\m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.jar
[INFO] Installing D:\au_university\maven\maven-session\pom.xml to C:\Users\maith\m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.928 s
[INFO] Finished at: 2021-01-28T23:05:56+05:30
[INFO]
D:\au_university\maven\maven-session>
```

2. Create a web-app using the archetype plugin

```
C:\Windows\System32\cmd.exe
D:\au_university\maven>mvn archetype:generate -DarchetypeArtifactId=maven-archetype-webapp -DartifactId=auwebapp -Dpackage=com.accolite.au -DgroupId=com.accolite.au -DarchetypeVersion=1.4
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> mvn archetype:plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< mvn archetype:plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- mvn 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/1.4/maven-archetype-webapp-1.4.pom (1.4 kB at 4.6 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.4/maven-archetype-webapp-1.4.jar (6.8 kB at 17 kB/s)
Define value for property 'groupId': acc
[INFO] Using property: artifactId = auwebapp
Define value for property 'version' 1.0-SNAPSHOT: :
[INFO] Using property: package = com.accolite.au
Confirm properties configuration:
groupId: acc
artifactId: auwebapp
version: 1.0-SNAPSHOT
package: com.accolite.au
Y: :
[INFO]
[INFO] Using following parameters for creating project from Archetype: maven-archetype-webapp:1.4
[INFO]
[INFO] Parameter: groupId, Value: acc
[INFO] Parameter: artifactId, Value: auwebapp
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.accolite.au
[INFO] Parameter: packageInPathFormat, Value: com/accolite/au
[INFO] Parameter: package, Value: com.accolite.au
[INFO] Parameter: groupId, Value: acc
[INFO] Parameter: artifactId, Value: auwebapp
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: D:\au_university\maven\auwebapp
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 27.522 s
[INFO] Finished at: 2021-01-28T23:08:39+05:30
[INFO]
D:\au_university\maven>
```

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

```
File Edit Selection View Go Run Terminal Help SimpleServlet.java - auwebapp - Visual Studio Code
EXPLORER
> OPEN EDITORS
  AUWEBAPP
  > src\main
    java
    SimpleServlet.java
  > webapp
    WEB-INF
    index.jsp
  > target
  pom.xml
OUTLINE
NPM SCRIPTS
SimpleServlet.java
1 import java.io.IOException;
2 import javax.servlet.ServletException;
3 import javax.servlet.http.HttpServlet;
4 import javax.servlet.http.HttpServletRequest;
5 import javax.servlet.http.HttpServletResponse;
6 public class SimpleServlet extends HttpServlet {
7     private static final long serialVersionUID = -4751096228274971485L;
8     @Override
9     protected void doGet(HttpServletRequest request, HttpServletResponse response)
10         throws ServletException, IOException {
11         response.getWriter().println("Hello World!");
12     }
13     @Override
14     public void init() throws ServletException {
15         System.out.println("Servlet " + this.getServletName() + " has started");
16     }
17     @Override
18     public void destroy() {
19         System.out.println("Servlet " + this.getServletName() + " has stopped");
20     }
21
22
Ln 21, Col 2 Spaces: 4 UTF-8 CRLF Java Go Live
```

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

mvn tomcat7:run

Running

```

C:\Windows\System32\cmd.exe - mvn tomcat7:run
Downloading from central: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.3/commons-logging-1.1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.3/commons-logging-1.1.3.jar (62 kB at 14 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/tomcat/maven/tomcat7-war-runner/2.2/tomcat7-war-runner-2.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/tomcat/maven/tomcat7-war-runner/2.2/tomcat7-war-runner-2.2.jar (282 kB at 61 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcore/4.3/httpcore-4.3.jar (282 kB at 61 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpcore/4.3/httpcore-4.3.jar (282 kB at 61 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-cli/commons-cli/1.2/commons-cli-1.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/commons-cli/commons-cli/1.2/commons-cli-1.2.jar (41 kB at 8.3 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/eclipse/jdt/core/compiler/ecj/4.2.2/ecj-4.2.2.jar (1.8 MB at 377 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/eclipse/jdt/core/compiler/ecj/4.2.2/ecj-4.2.2.jar (1.8 MB at 377 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/tomcat/maven/tomcat7-war-runner/2.2/tomcat7-war-runner-2.2.jar (25 kB at 5.0 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/tomcat/maven/tomcat7-war-runner/2.2/tomcat7-war-runner-2.2.jar (25 kB at 5.0 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-lang/commons-lang/2.6/commons-lang-2.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/commons-lang/commons-lang/2.6/commons-lang-2.6.jar (258 kB at 49 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-cli/commons-cli/1.2/commons-cli-1.2.jar (41 kB at 8.3 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/commons-cli/commons-cli/1.2/commons-cli-1.2.jar (41 kB at 8.3 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.4.1/commons-compress-1.4.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.4.1/commons-compress-1.4.1.jar (1.6 MB at 318 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.0/xz-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.0/xz-1.0.jar (95 kB at 17 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.2/commons-io-2.2.jar (174 kB at 32 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.2/commons-io-2.2.jar (174 kB at 32 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/2.1.1/plexus-archiver-2.1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/2.1.1/plexus-archiver-2.1.1.jar (185 kB at 30 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.3.1/httpclient-4.3.1.jar (586 kB at 105 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.3.1/httpclient-4.3.1.jar (586 kB at 105 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.4.1/commons-compress-1.4.1.jar (241 kB at 42 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.4.1/commons-compress-1.4.1.jar (241 kB at 42 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.0.3/plexus-io-2.0.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.0.3/plexus-io-2.0.3.jar (58 kB at 9.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-lang/commons-lang/2.6/commons-lang-2.6.jar (284 kB at 49 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/commons-lang/commons-lang/2.6/commons-lang-2.6.jar (284 kB at 49 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/1.0/maven-filtering-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/1.0/maven-filtering-1.0.jar (43 kB at 6.9 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/1.0/maven-filtering-1.0.jar (43 kB at 6.9 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/1.0/maven-filtering-1.0.jar (43 kB at 6.9 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/slf4j/jcl-over-slf4j/1.7.5/jcl-over-slf4j-1.7.5.jar (17 kB at 2.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/jcl-over-slf4j/1.7.5/jcl-over-slf4j-1.7.5.jar (17 kB at 2.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.2.1/maven-reporting-api-2.2.1.jar (9.8 kB at 1.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.2.1/maven-reporting-api-2.2.1.jar (9.8 kB at 1.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.2.1/maven-reporting-api-2.2.1.jar (9.8 kB at 1.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.2.1/maven-reporting-api-2.2.1.jar (9.8 kB at 1.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.2.1/maven-reporting-api-2.2.1.jar (9.8 kB at 1.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.2.1/maven-reporting-api-2.2.1.jar (9.8 kB at 1.5 kB/s)
[INFO] Running war on http://localhost:9090/
[INFO] Creating Tomcat server configuration at D:\au_university\maven\auwebapp\target\tomcat
[INFO] create webapp with contextPath:
Jan 28, 2021 11:24:39 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9090"]
Jan 28, 2021 11:24:39 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 28, 2021 11:24:39 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Jan 28, 2021 11:24:40 PM org.apache.catalina.util.SessionIdGenerator createSecureRandom
INFO: Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [243] milliseconds.
Jan 28, 2021 11:24:40 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9090"]

```

