

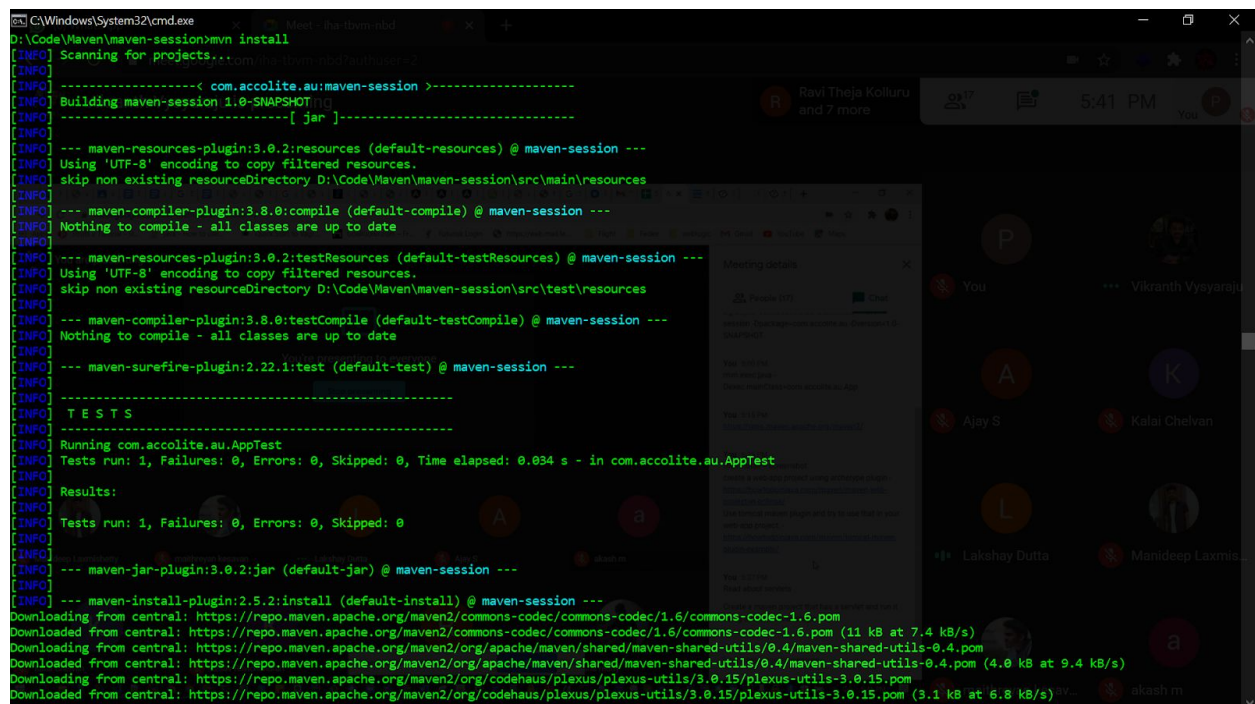
# Maven Basics Assignment

Prabhakar

## Tasks:

1. Perform "mvn install" on the "maven-session" project which was created during the session and share the screen-shots.
2. Create a web-app using the archetype plugin  
(<https://maven.apache.org/guides/introduction/introduction-to-archetypes.html>)
3. In the above created web-app add a sample servlet  
(<https://javatutorial.net/java-servlet-example>)
4. Use tomcat maven plugin and run the web-app  
(<https://howtodoinjava.com/maven/tomcat-maven-plugin-example/>)

## 1. Performed mvn installed on maven-session:



```
C:\Windows\System32\cmd.exe
D:\Code\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:\Code\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:\Code\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: 0.034 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] Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom (11 kB at 7.4 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom (4.0 kB at 9.4 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom (3.1 kB at 6.8 kB/s)
```

```
C:\Windows\System32\cmd.exe
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ maven-session ---
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ maven-session ---
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom (11 kB at 7.4 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom (4.0 kB at 9.4 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom (3.1 kB at 6.8 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar (233 kB at 158 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar (155 kB at 80 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (239 kB at 116 kB/s)
[INFO] Installing D:\Code\Maven\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\praba.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.jar
[INFO] Installing D:\Code\Maven\maven-session\pom.xml to C:\Users\praba.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO] Total time: 6.947 s
[INFO] Finished at: 2021-01-19T17:40:54+05:30
[INFO]

D:\Code\Maven\maven-session>
```

## 2. Create a web-app using the archetype plugin :

```
mvn archetype:generate -DgroupId=com.howtodoinjava
-DartifactId=demoWebApplication
-DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4
-DinteractiveMode=false
```



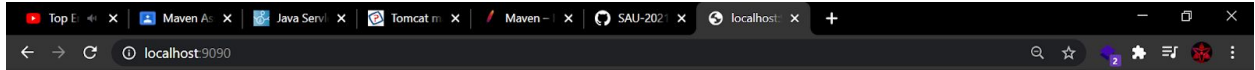
```
<dependency>
  <groupId>javax.servlet.jsp</groupId>
  <artifactId>javax.servlet.jsp-api</artifactId>
  <version>2.3.1</version>
  <scope>provided</scope>
</dependency>
```

## Tomcat server Running:

> *mvn tomcat7:run*

```
C:\Windows\System32\cmd.exe - mvn tomcat7:run
D:\Code\Maven\demoWebApplication>mvn tomcat7:run
[INFO] Scanning for projects...
[INFO] -----< com.accolite.au:auwebapp >-----
[INFO] Building demoWebApplication 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO] >>> tomcat7-maven-plugin:2.2:run (default-cli) > process-classes @ auwebapp >>>
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ auwebapp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ auwebapp ---
[INFO] Nothing to compile - all classes are up to date
[INFO] <<< tomcat7-maven-plugin:2.2:run (default-cli) < process-classes @ auwebapp <<<
[INFO] --- tomcat7-maven-plugin:2.2:run (default-cli) @ auwebapp ---
[INFO] Running war on http://localhost:9090/
[INFO] Using existing Tomcat server configuration at D:\Code\Maven\demoWebApplication\target\tomcat7-maven-plugin-example\
[INFO] create webapp with contextPath:
Jan 20, 2021 11:13:37 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9090"]
Jan 20, 2021 11:13:37 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 20, 2021 11:13:37 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Jan 20, 2021 11:13:39 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9090"]
```

## Demo WebApp:



## Maven and Servlet Assignment!

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