1.Install Maven

1.Send the screenshot of "mvn -version"

- mvn -version

```
C:\Users\Praveen>mvn -version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: C:\Users\Praveen\Downloads\apache-maven-3.6.3-bin\apache-maven-3.6.3\bin\..
Java version: 1.8.0_241, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_241\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

2.Create a sample maven project

1. Using archetype plugin and generate goal.
2. Give custom values for groupId, artifactId, version, package and execute "mvn install" and "mvn exec:java -Dexec.mainClass=your-fully-qualified-class-name".
3. Share zip of project and screenshot for "mvn install" and "mvn exec:java" command

- mvn archetype:generate -DgroupId=com.accolite.au -DartifactId=maven-session
  -Dpackage=com.accolite.au -Dversion=1.0
  -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

- mvn install

```
C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] ------------------< com.accolite.au:maven-session >--------------------
[INFO] Building maven-session 1.0
[INFO] --------------------------------[ jar ]---------------------------------
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.pom (8.1 kB at 2.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.jar (30 kB at 39 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.pom (10 kB at 17 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.jar (43 kB at 58 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.pom (10 kB at 21 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.12.4/surefire-2.12.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.12.4/surefire-2.12.4.pom (14 kB at 27 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.jar (30 kB at 61 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.4/maven-jar-plugin-2.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.4/maven-jar-plugin-2.4.pom (5.8 kB at 13 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.4/maven-jar-plugin-2.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.4/maven-jar-plugin-2.4.jar (34 kB at 66 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.pom (998 B at 2.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.jar (121 kB at 154 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-session ---
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (1.5 kB at 2.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom (9.0 kB at 20 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom (15 kB at 32 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.6/maven-project-2.0.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.6/maven-project-2.0.6.pom (2.6 kB at 5.1 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-settings/2.0.6/maven-settings-2.0.6.pom
```

- mvn exec:java -Dexec.mainClass=com.accolite.au.App

3.Create a maven web-app project
> **1. Using archetype plugin and generate goal.**
> **2. Give custom values for groupId, artifactId, version, package and execute "mvn install" and "mvn exec:java -Dexec.mainClass=your-fully-qualified-class-name".**
> **3. Share zip of project and screenshot for "mvn install"**

- mvn archetype:generate -DgroupId=com.accolite.au -DartifactId=maven-session -Dpackage=com.accolite.au -Dversion=1.0 -DarchetypeArtifactId=maven-archetype-webapp -DinteractiveMode=false

- mvn install

```
C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] ---------------< com.accolite.au:maven-session-webapp >---------------
[INFO] Building maven-session-webapp Maven Webapp 1.0
[INFO] --------------------------------[ war ]--------------------------------
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-war-plugin/2.2/maven-war-plugin-2.2.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-war-plugin/2.2/maven-war-plugin-2.2.pom (6.5 kB at 2.6 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-war-plugin/2.2/maven-war-plugin-2.2.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-war-plugin/2.2/maven-war-plugin-2.2.jar (79 kB at 85 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-session-webapp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ maven-session-webapp ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ maven-session-webapp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ maven-session-webapp ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ maven-session-webapp ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:2.2:war (default-war) @ maven-session-webapp ---
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/2.5/maven-archiver-2.5.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/2.5/maven-archiver-2.5.pom (4.5 kB at 8.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/2.1/plexus-archiver-2.1.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/2.1/plexus-archiver-2.1.pom (2.8 kB at 6.1 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.pom (4.1 kB at 8.9 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/spice/spice-parent/16/spice-parent-16.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/spice/spice-parent/16/spice-parent-16.pom (8.4 kB at 18 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/forge/forge-parent/5/forge-parent-5.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/forge/forge-parent/5/forge-parent-5.pom (8.4 kB at 18 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.0.2/plexus-io-2.0.2.pom
```

- mvn clean package

```
C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp>mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] ---------------< com.accolite.au:maven-session-webapp >---------------
[INFO] Building maven-session-webapp Maven Webapp 1.0
[INFO] --------------------------------[ war ]--------------------------------
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ maven-session-webapp ---
[INFO] Deleting C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\target
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-session-webapp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ maven-session-webapp ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ maven-session-webapp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ maven-session-webapp ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ maven-session-webapp ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:2.2:war (default-war) @ maven-session-webapp ---
[INFO] Packaging webapp
[INFO] Assembling webapp [maven-session-webapp] in [C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\target\maven-session-webapp]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\src\main\webapp]
[INFO] Webapp assembled in [192 msecs]
[INFO] Building war: C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\target\maven-session-webapp.war
[INFO] WEB-INF\web.xml already added, skipping
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  13.924 s
[INFO] Finished at: 2020-07-27T22:54:18+05:30
[INFO] ------------------------------------------------------------------------
```

4.In the above created sample maven project (Step 2) run "mvn install" again but it should now skip the execution of tests.

1. Send the screenshot of "mvn install" that should skip the execution of tests.

- mvn install

```
C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] ---------------< com.accolite.au:maven-session-webapp >---------------
[INFO] Building maven-session-webapp Maven Webapp 1.0
[INFO] --------------------------------[ war ]---------------------------------
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ maven-session-webapp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ maven-session-webapp ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ maven-session-webapp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ maven-session-webapp ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ maven-session-webapp ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:2.2:war (default-war) @ maven-session-webapp ---
[INFO] Packaging webapp
[INFO] Assembling webapp [maven-session-webapp] in [C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\target\maven-session-webapp]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\src\main\webapp]
[INFO] Webapp assembled in [213 msecs]
[INFO] Building war: C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\target\maven-session-webapp.war
[INFO] WEB-INF\web.xml already added, skipping
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ maven-session-webapp ---
[INFO] Installing C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\target\maven-session-webapp.war to C:\Users\Praveen\.m2\repository\com\accolite\au\maven-session-webapp\1.0\maven-session-webapp-1.0.war
[INFO] Installing C:\Users\Praveen\Desktop\PSOSM\Accolite\Study\Maven-Evening\maven-session-webapp\pom.xml to C:\Users\Praveen\.m2\repository\com\accolite\au\maven-session-webapp\1.0\maven-session-webapp-1.0.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  9.696 s
[INFO] Finished at: 2020-07-27T23:03:21+05:30
[INFO] ------------------------------------------------------------------------
```

Activate Windows
Go to Settings to activate Windows.