MAVEN CONCEPTS ASSIGNMENT

Maven Specification on running 'mvn -v' after installation:

```
C:\Users\nishu\Desktop>mvn -v
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: C:\Users\nishu\Desktop\apache-maven-3.6.3\bin\..
Java version: 14.0.2, vendor: Oracle Corporation, runtime: C:\Users\nishu\Deskto
p\jdk-14.0.2
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 8.1", version: "6.3", arch: "amd64", family: "windows"
```

CREATING A SAMPLE PROJECT

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

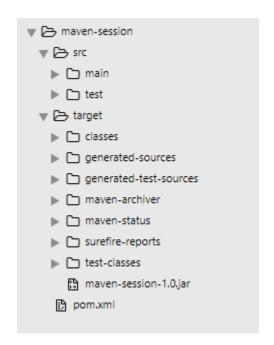
2) Running command 'mvn install' on maven-session created.

.

3) Tree Structure

```
C:\Users\nishu\Desktop\MavenAssignment\maven-session>tree
Folder PATH listing for volume Windows
Volume serial number is 442B-FB08
C:.
              main
                     java
                            com
                                   -accolite
                                         -au
                     java
                            com
                                   accolite
       target
|----çlasses
                     com
                            accolite
                                   -au
              generated-sources
                     annotations
             generated-test-sources
—test-annotations
maven-archiver
              maven-status
                     maven-compiler-plugin
                            compiler plagin
compile
default-compile
testCompile
default-testCompile
              surefire-reports
test-classes
                     COM
                            accolite
                                   -au
```

4) Directory Structure



5) 'pom.xml' file

```
kproject xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/
  maven-v4 0 0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.accolite.au
  <artifactId>maven-session</artifactId>
  <packaging>jar</packaging>
  <version>1.0</version>
  <name>maven-session
  <url>http://maven.apache.org</url>
properties>
    <maven.compiler.source>1.7</maven.compiler.source>
    <maven.compiler.target>1.7</maven.compiler.target>
properties>
      <groupId>junit
      <artifactId>junit</artifactId>
      <version>3.8.1
      <scope>test</scope>
    </dependency>
  </dependencies>
```

6) Executing the project using 'mvn exec:java -Dexec.mainClass=com.accolie.au'

CREATE A WEBAPP USING MAVEN

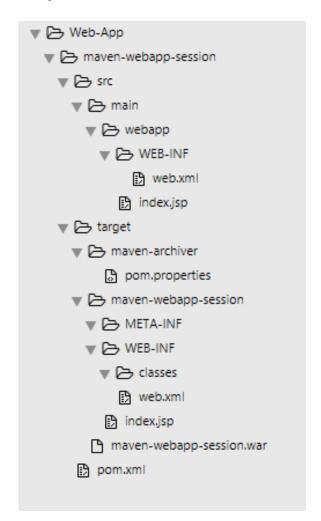
1) mvn archetype:generate -DarchetypeGroupId=org.apache.maven.archetypes -DarchetypeArtifactId=**maven-archetype-webapp** -DarchetypeVersion=1.4

Here we provide necessary fileds like groupId, artifactId as input

```
G:\Users\nishu\Desktop\Web-App>mvn archetype:generate -DarchetypeGroupId=org.apa
che.maven.archetypes -DarchetypeArtifactId=maven-archetype-webapp -DarchetypeVer
 sion=1.4
 [INFO] Scanning for projects...
              ·[ pom ]-
IINFO1 >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-source
s @ standalone-pom >>>
   NFO1 <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-source @ standalone-pom <<<
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom
[INFO] Generating project in Interactive mode
[INFO] Archetype repository not defined. Using the one from [org.apache.maven.ar
[INFO] Archetype repository not defined. Using the one from [org.chetypes:maven-archetype-webapp:1.4] found in catalog remote
Define value for property 'groupId': com.Nishu.au
Define value for property 'artifactId': maven-webapp-session
Define value for property 'version' 1.0-SNAPSHOT: : 1.0
Define value for property 'package' com.Nishu.au: : com.Nishu.au
Confirm properties configuration:
groupId: com.Nishu.au
artifactId: maven-webapp-session
 version: 1.0
package: com.Nishu.au
 Y: : Y
[INFO] Using following parameters for creating project from Archetype: maven-arc
hetype-webapp:1.4
[INFO] -----
[INFO] Parameter: groupId, Value: com.Nishu.au
[INFO] Parameter: artifactId, Value: maven-webapp-session
[INFO] Parameter: version, Value: 1.0
[INFO] Parameter: package, Value: com.Nishu.au
[INFO] Parameter: packageInPathFormat, Value: com/Nishu/au
[INFO] Parameter: package, Value: com.Nishu.au
[INFO] Parameter: groupId, Value: com.Nishu.au
[INFO] Parameter: artifactId, Value: maven-webapp-session
[INFO] Parameter: version, Value: 1.0
[INFO] Project created from Archetype in dir: C:\Users\nish
[INFO] Project created from Archetype in dir: C:\Users\nishu\Desktop\Web-App\mav
 en-webapp-session
              BUILD SUCCESS
LINFO<sub>1</sub>
                                         01:23 min
              Total time:
              Finished at: 2020-07-30T20:23:31+05:30
```

2) Running 'mvn install' on maven-webapp-session created

3) Directory Structure



4) 'pom.xml' file

```
<?xml version="1.0" encoding="UTF-8"?>
ct xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/
  maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.Nishu.au
  <artifactId>maven-webapp-session</artifactId>
  <version>1.0</version>
  <packaging>war</packaging>
  <name>maven-webapp-session Maven Webapp
  <url>http://www.example.com</url>
  </properties>
  </dependencies>
  <build>
  </build>
</project>
```