Spring Au 2021 - February(Batch -2) Maven Basics - Afternoon

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Github - https://github.com/nitinkaushik10/SAU-Feb-Batch-2/

1) mvn install

```
Command Prompt
Microsoft Windows [Version 10.0.18363.1379]
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C:\Users\Nitin>mvn -version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: C:\Users\Nitin\apache-maven-3.6.3\bin\...
Java version: 1.8.0_91, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_91\jre
Default locale: en_IN, platform encoding: Cp1252
DS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\Nitin>
```

2) Using Maven Archetype Web APP Plugin generate a webapp project

```
\Users\Nitin\Desktop\java project>mvn archetype:generate -DgroupId=ToolsQA -DartifactId=DemoMavenProject -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
          Scanning for projects...
           Building Maven Stub Project (No POM) 1
           -----[ pom ]-----
           >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
           <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<</pre>
          --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
          Generating project in Batch mode
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/mav
ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-quickstart/1.0/maven-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype-archetype
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/2/maven-archetype-bundles-2.pom
ownloaded 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)
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype-parent/1/maven-archetype-parent-1.pom
ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype-parent/1/maven-archetype-parent-1.pom (1.3 kB at 2.6 kB/s)
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom
ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom (10.0 kB at 21 kB/s)
ownloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart-1.0.jar
ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart-1.0.jar (4.3 kB at 9.7 kB/s)
           Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
          Parameter: basedir, Value: C:\Users\Nitin\Desktop\java project
          Parameter: package, Value: ToolsQA
          Parameter: groupId, Value: ToolsQA
           Parameter: artifactId, Value: DemoMavenProject
           Parameter: packageName, Value: ToolsQA
          Parameter: version, Value: 1.0-SNAPSHOT
          project created from Old (1.x) Archetype in dir: C:\Users\Nitin\Desktop\java project\DemoMavenProject
           BUILD SUCCESS
           Total time: 10.044 s
          Finished at: 2021-03-01T23:19:37+05:30
```

```
:\Users\Nitin\Desktop\java project>cd DemoMavenProject
 :\Users\Nitin\Desktop\java project\DemoMavenProject>mvn package
    Scanning for projects...
      Building DemoMavenProject 1.0-SNAPSHOT
      -----[ jar ]-----
      --- maven-resources-plugin:2.6:resources (default-resources) @ DemoMavenProject ---
WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent! [NFO] skip non existing resourceDirectory C:\Users\Nitin\Desktop\java project\DemoMavenProject\src\main\resources
    ] --- maven-compiler-plugin:3.1;compile (default-compile) @ DemoMavenProject ---
    Changes detected - recompiling the module!
 WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
    Compiling 1 source file to C:\Users\Nitin\Desktop\java project\DemoMavenProject\target\classes
      --- mayen-resources-plugin:2.6:testResources (default-testResources) @ DemoMavenProject ---
WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
   👣 skip non existing resourceDirectory C:\Users\Nitin\Desktop\java project\DemoMavenProject\src\test\resources
      --- mayen-compiler-plugin:3.1:testCompile (default-testCompile) @ DemoMayenProject ---
    Changes detected - recompiling the module!
 WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
    Ompiling 1 source file to C:\Users\Nitin\Desktop\java project\DemoMavenProject\target\test-classes
      --- maven-surefire-plugin:2.12.4:test (default-test) @ DemoMavenProject ---
    O] Surefire report directory: C:\Users\Nitin\Desktop\java project\DemoMavenProject\target\surefire-reports
TESTS
dunning ToolsQA.AppTest
ests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.005 sec
Results :
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
      --- maven-jar-plugin:2.4:jar (default-jar) @ DemoMavenProject ---
      Building jar: C:\Users\Nitin\Desktop\java project\DemoMavenProject\target\DemoMavenProject-1.0-SNAPSHOT.jar
      BUILD SUCCESS
```

C:\Users\Nitin\Desktop\java project\DemoMavenProject\target>java -cp DemoMavenProject-1.0-SNAPSHOT.jar ToolsQA.App Hello World!

C:\Users\Nitin\Desktop\java project\DemoMavenProject\target>

- 3) Read about servlets and tomcat
 - a) Create your own servlet
 - b) Run it using maven tomcat plugin