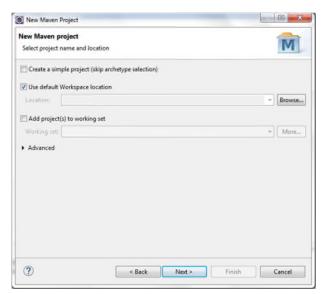
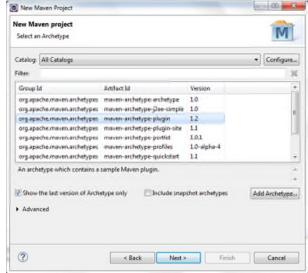
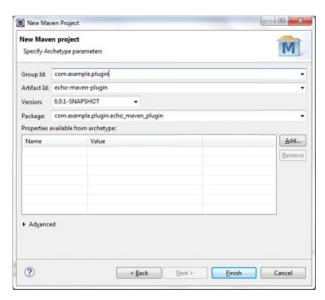
1. Create a new Maven Project - use maven-archetype-plugin.

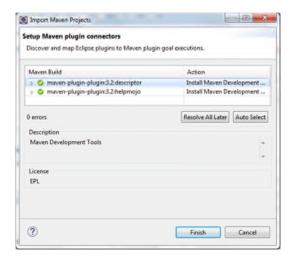




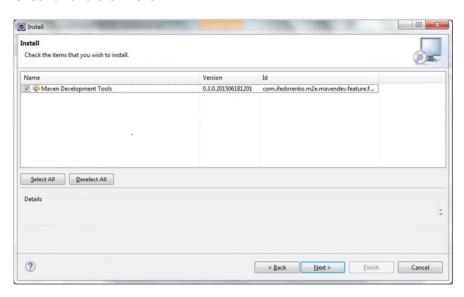
Set Group Id to com.example.plugin and Artifact Id to echo-maven-plugin.



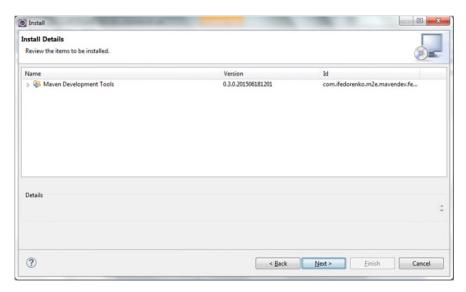
If you are prompted to **Setup Maven plugin connectors** click Finish.



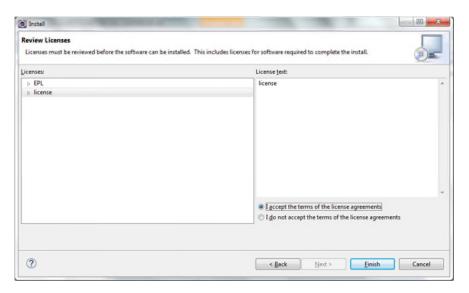
Check all and click Next.



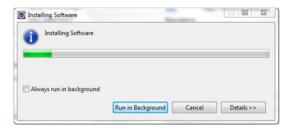
And **Next** again.



Select I accept the terms of the license agreements and click Finish.



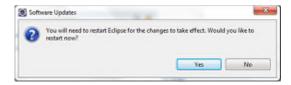
Eclipse will start installing software.



You might get a warning about unsigned software - click ok.



Eclipse will need to restart - click Yes.



2. Open MyMojo.java file under src/main/java in package com.example.plugin.echo_maven_plugin.

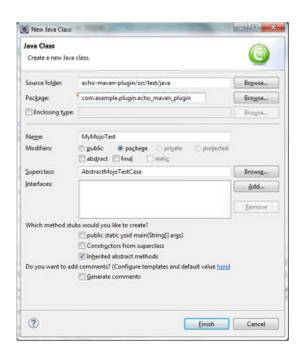
Edit the file as shown below:

```
echo-maven-plugin/pom.xml
  1 package com.example.plugin.echo_maven_plugin;
  40 * Copyright 2001-2005 The Apache Software Foundation.[]
%19⊕ import org.apache.maven.plugin.AbstractMojo;
 30
 31
      Mojo( name = "echo", defaultPhase = LifecyclePhase.PROCESS_SOURCES )
 32
336
     public class MyMojo extends AbstractMojo {
 34
          * Location of the file.
 35
         @Parameter(property = "message", required = true)
 36⊖
 37
         private String message;
 38
△39⊝
         public void execute() throws MojoExecutionException {
 40
41
                getLog().info("Message = "+message);
 42
 43
```

3. Open **pom.xml** in **src\it\simple-it**. After the line version>@project.version@
add
these 4 lines:

4. Run as Maven install. It should look like this:

- 5. Create a new folder /src/test/java.
- 6. Create a new Class named **MyMojoTest** in the **/src/test/java** folder. Enter: Package **com.example.plugin.echo_maven_plugin** and Superclass **AbstractMojoTestCase**



7. Copy the contents of the solution file into this class.

- 8. Create a folder named /src/test/resources/unit/echo-mojo.
- 9. Create a **pom.xml** file and enter the contents (or copy from solutions file) so it looks like this:

```
| in species and set the property of the prope
```

10. Open the main pom.xml file and add these 2 dependencies to the other dependencies.

```
<dependency>
  <groupId>org.apache.maven</groupId>
  <artifactId>maven-compat</artifactId>
  <version>3.3.9</version>
</dependency>
  <dependency>
  <groupId>org.apache.maven.plugin-testing</groupId>
    <artifactId>maven-plugin
  -testing-harness</artifactId>
    <version>3.1.0</version>
  <scope>test</scope>
</dependency>
```

11. Change the version of the **maven-plugin-api** dependency to **3.3.9** (or the Current version of Maven on your system).

12. Open **pom.xml** in the **src/it/simple-it** folder.

If there is a property setting for **<basedir>** remove that whole line.

```
Then, change:
<execution>
  <id>touch</id>
  <phase>validate</phase>
  <goals>
    <goal>touch</goal>
  </goals>
</execution>
To:
<execution>
  <id>echo</id>
  <phase>validate</phase>
  <goals>
    <goal>echo</goal>
  </goals>
</execution>
```

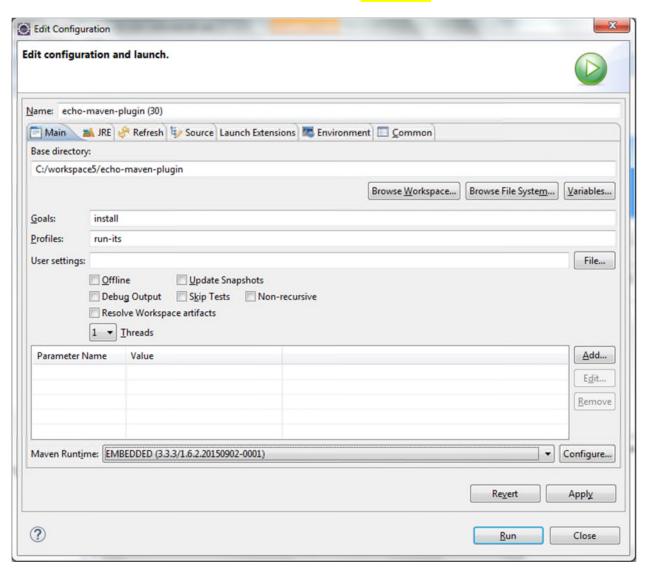
Save and close **pom.xml.**

13. Open verify.groovy in the src/it/simple-it folder.

Delete the entire content of the file and replace it with assert true.

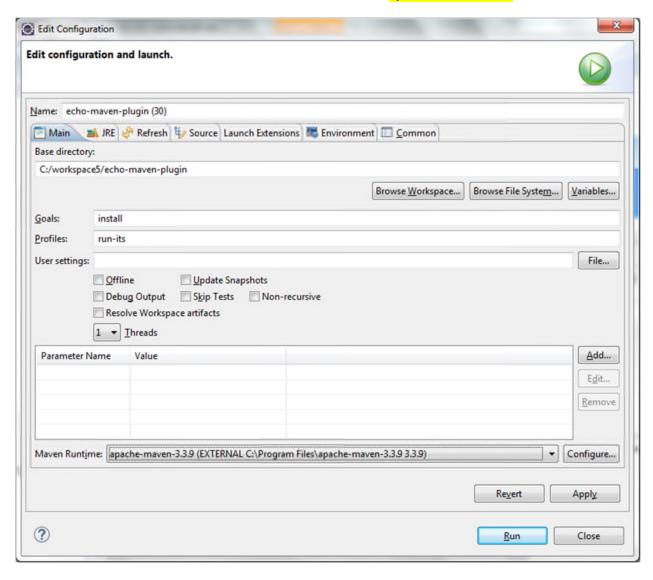
14. Select Run As → Maven build...

Set Goals to install, Profiles to run-its, Maven Runtime to EMBEDDED and hit Run.



The build will fail.

15. Set Goals to install, Profiles to run-its, Maven Runtime to apache-maven-3.3.9 and hit Run.



Note: If you don't see the option to change **Maven Runtime** to **apache-maven-3.3.9** refer to the walkthrough on how to install Maven properly.

If you get the error message (or similar):

[INFO] Maven invocation failed. Error configuring command-line. Reason: Maven executable not found at: C:\Program Files\apache-maven-3.3.9\bin\mvn.bat

Open **cmd.exe** and navigate to where the **apache-maven-3.3.9** is installed.

Move to the **bin** folder.

And type: copy mvn.cmd mvn.bat

```
23
                                                                                                     Administrator: C:\Windows\System32\cmd.exe
 :\Program Files\apache-maven-3.3.9\bin>dir
Volume in drive C is TI105512W0E
Volume Serial Number is E67E-5655
 Directory of C:\Program Files\apache-maven-3.3.9\bin
                                                        m2.conf
   /10/2015
                                                        mun
                                                       mvn.cmd
mvnDebug
 1/10/2015
     0/2015
                                                        mvnDebug.cmd
                                                 .843 munyjp
                                   18,851 bytes
748,123,451,392 bytes free
                        Dir(s)
C:\Program Files\apache-maven-3.3.9\bin>cupy mvn.cmd mvn.bat
1 file(s) copied.
C:\Program Files\apache-maven-3.3.9\bin>dir
Volume in drive C is TI105512W0E
Volume Serial Mumber is E67E-5655
 Directory of C:\Program Files\apache-maven-3.3.9\bin
                                                        m2.conf
                                                        mun.bat
                                                       mun.cmd
munDebug
    10/2015
    10/2015
                                                        munDebug.cmd
                                    1,843 mvnyjp
24,918 bytes
748,119,379,968 bytes free
C:\Program Files\apache-maven-3.3.9\bin>
```

If you get an error that the JAVA_HOME is not set, you can add a line in the beginning of the mvn.bat file:

SET JAVA HOME="your jdk install location"

Example:

SET JAVA_HOME="C:\Program Files\Java\jdk1.8.0_66"