INTEGRATE SELENIUM -MAVEN-JENKINS

Download Maven Apache.

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Extract the file

Now Declare Maven in Environment Variable.
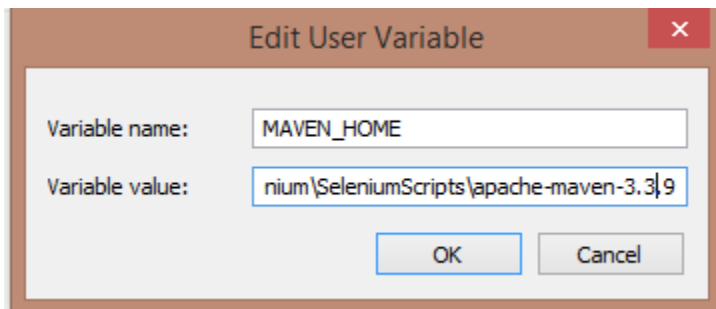
Variable Name: MAVEN_HOME

Variable Value: M:\Study\Selenium\SeleniumScripts\apache-maven-3.3.9
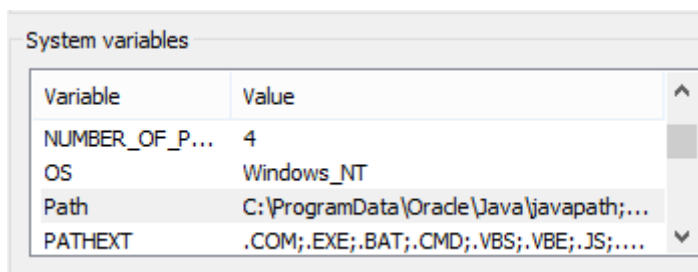
path Name: Path

Path value: M:\Study\Selenium\SeleniumScripts\apache-maven-3.3.9\bin;

Now Add the Maven Plugin in Eclipse . If you have Eclipse luna /higher version, No need to add plugin. Because Maven is inbuilt after Kepler.

*open Eclipse Kepler->help->Install new software->Add
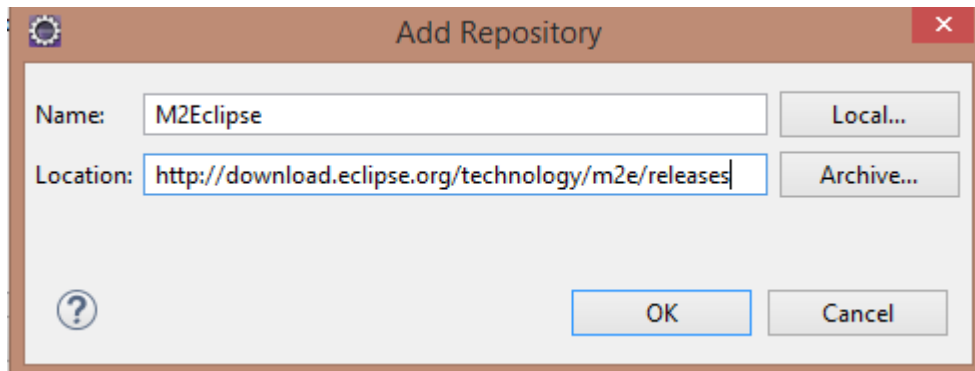
Press ok .

Check the maven integration for eclipse and proceed the installation.
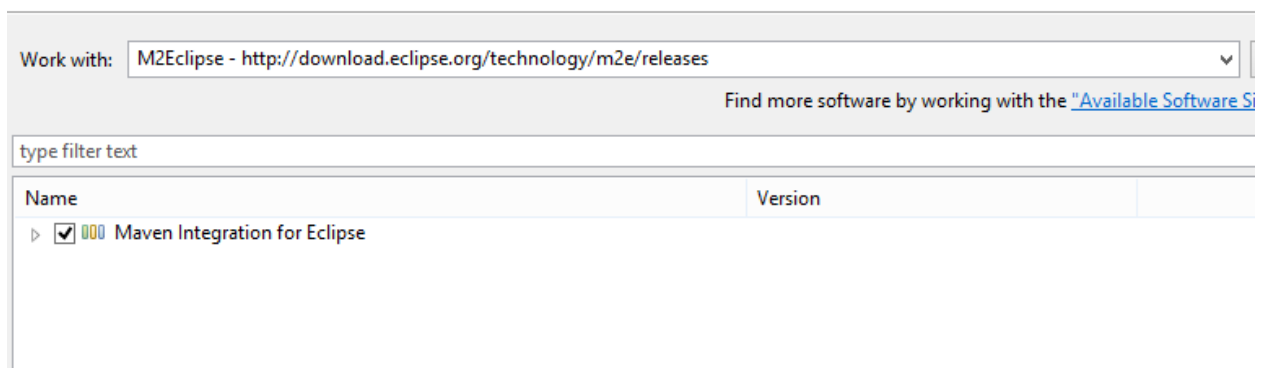
*Create New Maven Project.

File->Project->Maven project
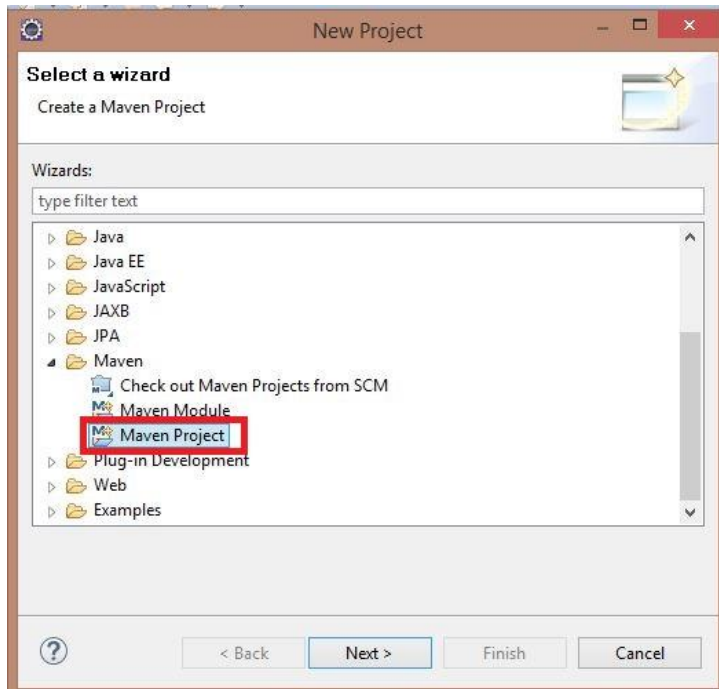
*Check the Create a simple project and press next.
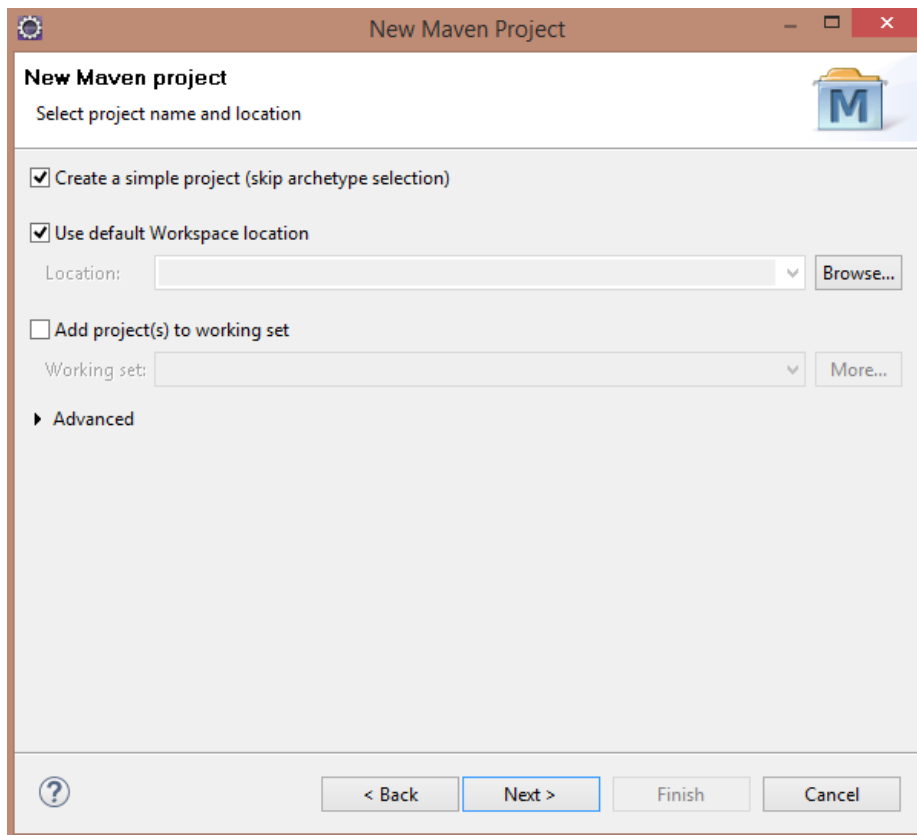
Enter Group ID, Artifact ID, Name and Description, it should be anything.->Finish.

Will take some time for Project Creation. Check the progress bar right hand side bottom corner.
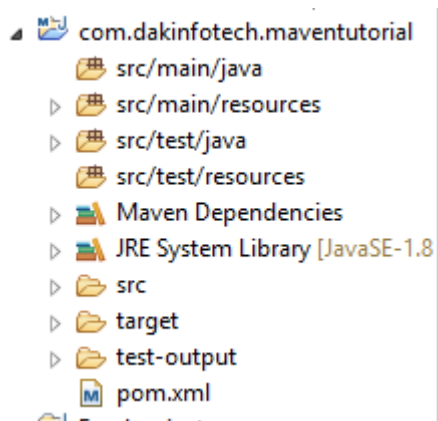
Edit the pom.xml file(Note : for maven, testng and selenium assign the latest version).

```xml
<project 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.dakinfotech</groupId>
  <artifactId>com.dakinfotech.maventutorial</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>Learn Maven Integration</name>
  <description>Learn Maven Integration</description>
  <packaging>jar</packaging>
 <properties>
<suiteXmlFile>src/main/resources/testng.xml</suiteXmlFile>
</properties>

<dependencies>
 <dependency>
      <groupId>org.testng</groupId>
      <artifactId>testng</artifactId>
      <version>6.8</version>
      <scope>test</scope>
  </dependency>
  <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>2.53.0</version>
  </dependency>
</dependencies>

<build>
 <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.3</version>
<configuration>
<compilerVersion>1.8</compilerVersion>
<source>1.8</source>
<target>1.8</target>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>2.18.1</version>
<configuration>
<suiteXmlFiles>
<suiteXmlFile>${suiteXmlFile}</suiteXmlFile>
```

```
</suiteXmlFiles>
</configuration>
</plugin>
</plugins>
</build>
</project>
```

*Create a simple program in src/test/java

```java
package com.dakinfotech.maventutorialtutor;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.Test;

public class TutorialsPoint {
    @Test
    public void test1(){
        WebDriver driver=new FirefoxDriver();
        driver.get("http://newtours.demoaut.com/");
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(3, TimeUnit.SECONDS);

    driver.findElement(By.name("userName")).sendKeys("arund87@gmail.com");
        driver.findElement(By.name("password")).sendKeys("pass123");
        driver.findElement(By.name("login")).click();
        driver.manage().timeouts().implicitlyWait(3, TimeUnit.SECONDS);
        driver.quit();
    }

}
```
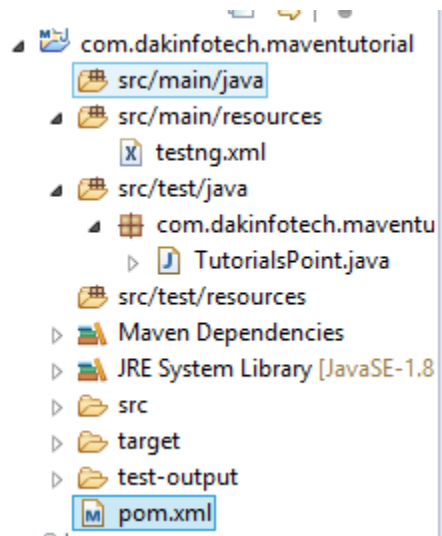
* Right click the class file and Convert to testng.xml.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">
<suite name="Suite" parallel="none">
  <test name="Test">
    <classes>
      <class name="com.dakinfotech.maventutorialtutor.TutorialsPoint"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```
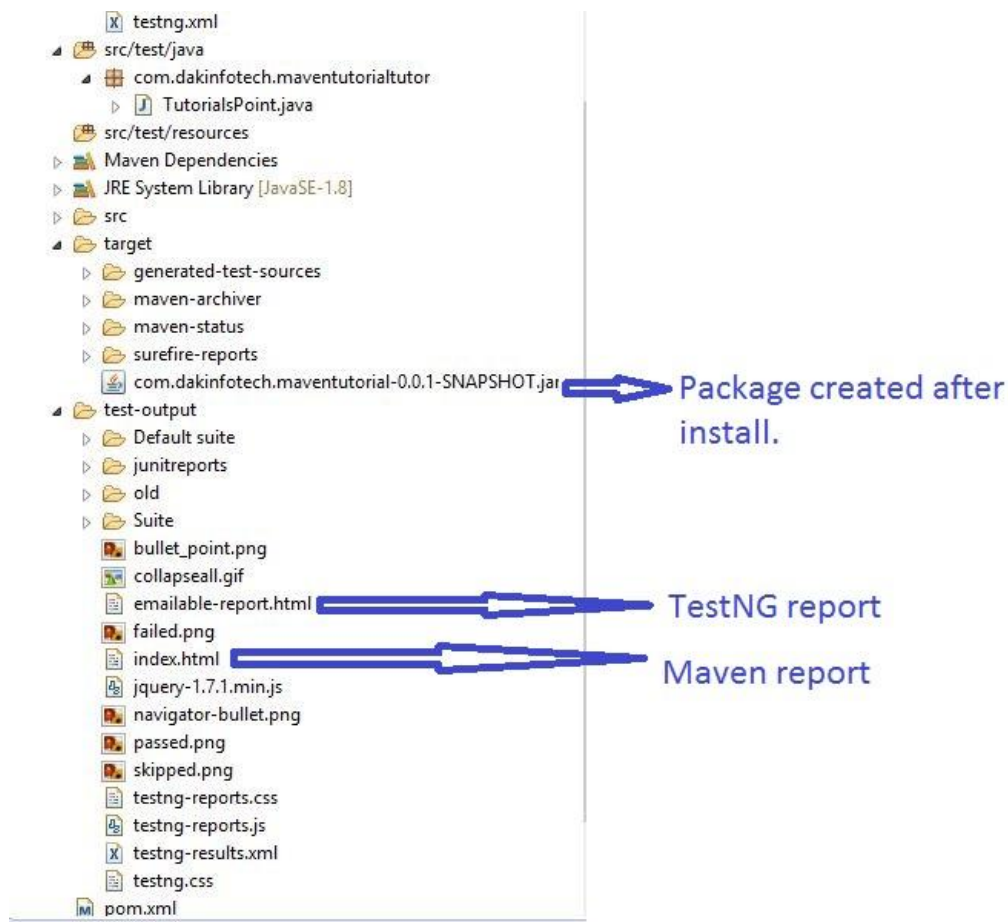
*Move the testng.xml file to src/main/resource because in pom.xml we declared this path.

Now your maven setup is ready for execution.

*open the command prompt(cmd).

>Go to the path of the workspace.

>mvn clean =>This will clean the build.

>mvn install =>it will build the package and run the test.

```
M:\>cd M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial

M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial>mvn clean
[INFO] Scanning for projects...
[INFO]
[INFO] ------------------------------------------------------------------------
[INFO] Building Learn Maven Integration 0.0.1-SNAPSHOT
[INFO] ------------------------------------------------------------------------
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ com.dakinfotech.maventutorial ---
[INFO] Deleting M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial\target
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 0.308 s
[INFO] Finished at: 2016-05-04T22:49:27+05:30
[INFO] Final Memory: 6M/123M
[INFO] ------------------------------------------------------------------------

M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial>
```

```
-------------------------------------------------
 T E S T S
-------------------------------------------------
Running TestSuite
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 19.758 sec - in TestSuite

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ com.dakinfotech.maventutorial ---
[INFO] Building jar: M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial\targe
t\com.dakinfotech.maventutorial-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ com.dakinfotech.maventutorial ---
[INFO] Installing M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial\target\c
om.dakinfotech.maventutorial-0.0.1-SNAPSHOT.jar to C:\Users\arunkavi\.m2\repository\com\dakinfotech\
com.dakinfotech.maventutorial\0.0.1-SNAPSHOT\com.dakinfotech.maventutorial-0.0.1-SNAPSHOT.jar
[INFO] Installing M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial\pom.xml
to C:\Users\arunkavi\.m2\repository\com\dakinfotech\com.dakinfotech.maventutorial\0.0.1-SNAPSHOT\com
.dakinfotech.maventutorial-0.0.1-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 23.407 s
[INFO] Finished at: 2016-05-04T22:50:38+05:30
[INFO] Final Memory: 17M/164M
[INFO] ------------------------------------------------------------------------

M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial>
```

To rerun the build =>mvn test.

OUTPUTS:

TestNG Report:

Test	Methods Passed	Scenarios Passed	# skipped	# failed	Total Time	Included Groups	Excluded Groups
Test	1	1	0	0	14.0 seconds		

Class	Method	# of Scenarios	Start	Time (ms)
Test — passed				
com.dakinfotech.maventutorialtutor.TutorialsPoint	test1	1	1462379615044	14005

Test

com.dakinfotech.maventutorialtutor.TutorialsPoint:test1

back to summary

Maven Report:

Integration of Selenium Webdriver with Maven and Jenkins

*Run the java -jar jenkins.war(cmd),Wait till jenkins is UP and RUNNING.

*Now open the jenkins URL in browser. http://localhost:8080/
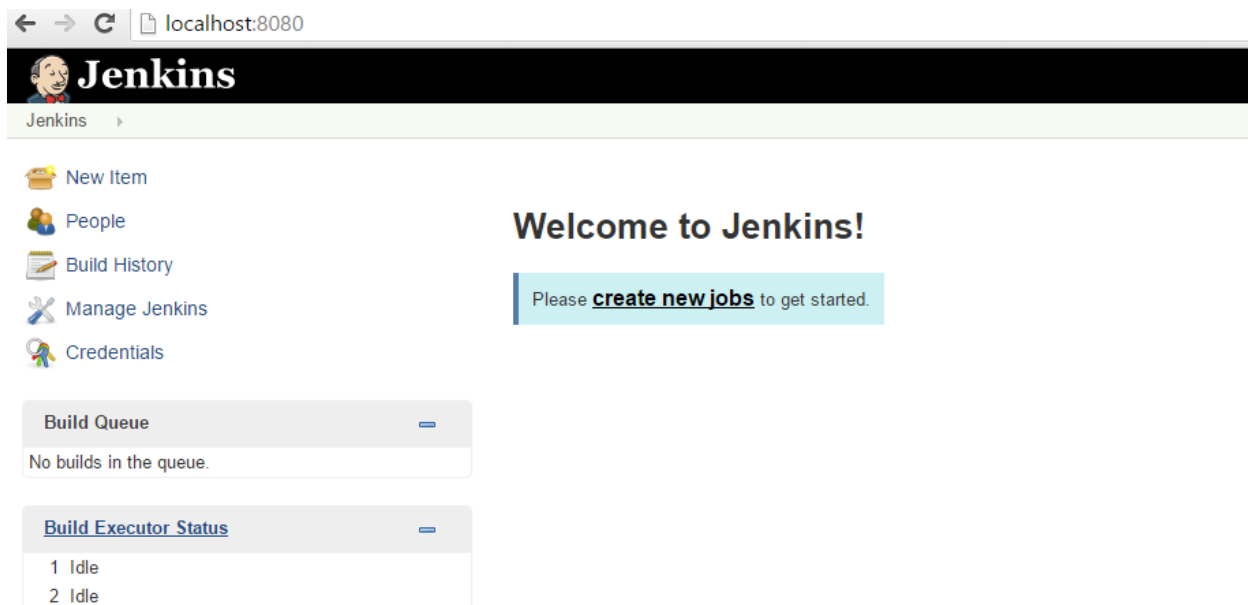
Go to Manage Jenkins->Configure System. Add the JDK Installation and Maven Installation then save it.

Refer Environment variable.

*New Item->Maven Project->Enter your project name and press OK.

New Item

People

Build History

Manage Jenkins

Credentials

All	+
S	W	Name ↓
⚪	☀	MavenJenkinsIntegration

Icon: S M L

Build Queue —

No builds in the queue.

Build Executor Status —

1 Idle
2 Idle

Project is created.->open the project->configure the root pom and save it.

Pre Steps

Add pre-build step ▼

Build

Root POM   M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial\pom.xml

Goals and options   clean install

Post Steps

○ Run only if build succeeds ○ Run only if build succeeds or is unstable ⦿ Run regar

Should the post-build steps run only for successful builds, etc.

Add post-build step ▼

Build Settings

☐ E-mail Notification

Post-build Actions

Add post-build action ▼

Save   Apply

Now execute the program by Build Now. *Congrats your first integration test is successfully ran.

To view console output. >Press #1 and select console output.

*********************************THANK YOU*********************************