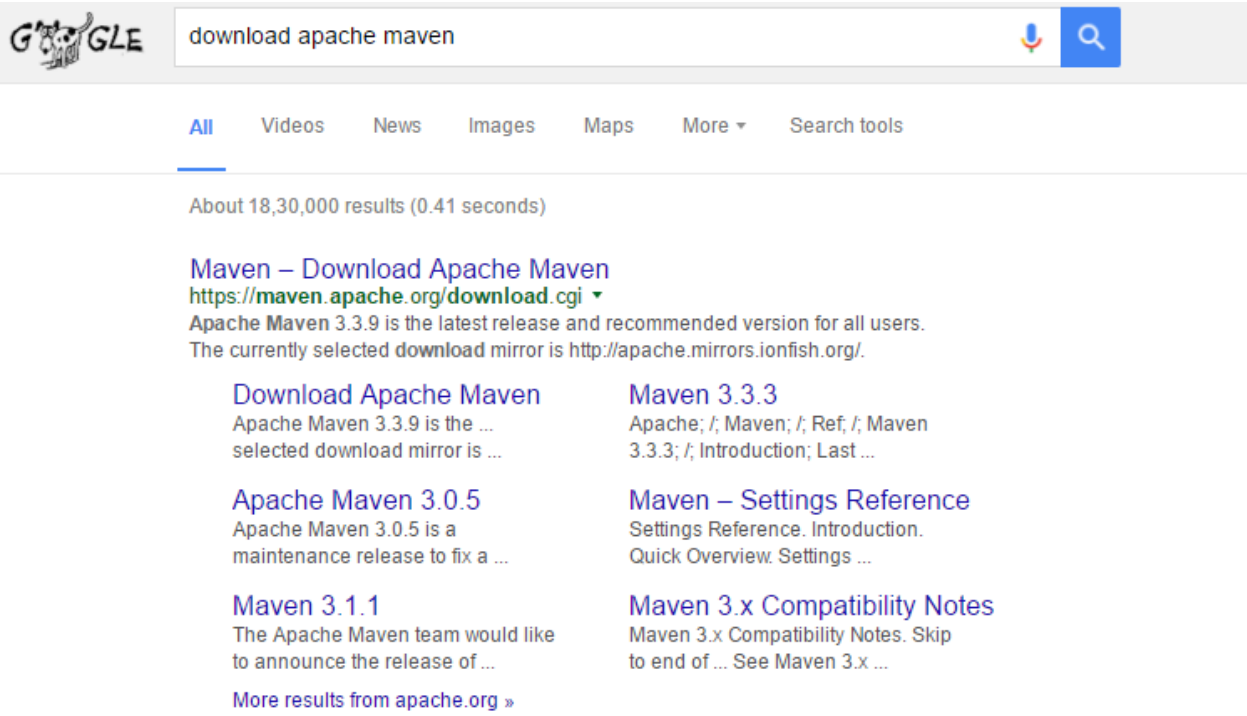
INTEGRATE SELENIUM WITH MAVEN

Download Maven Apache.



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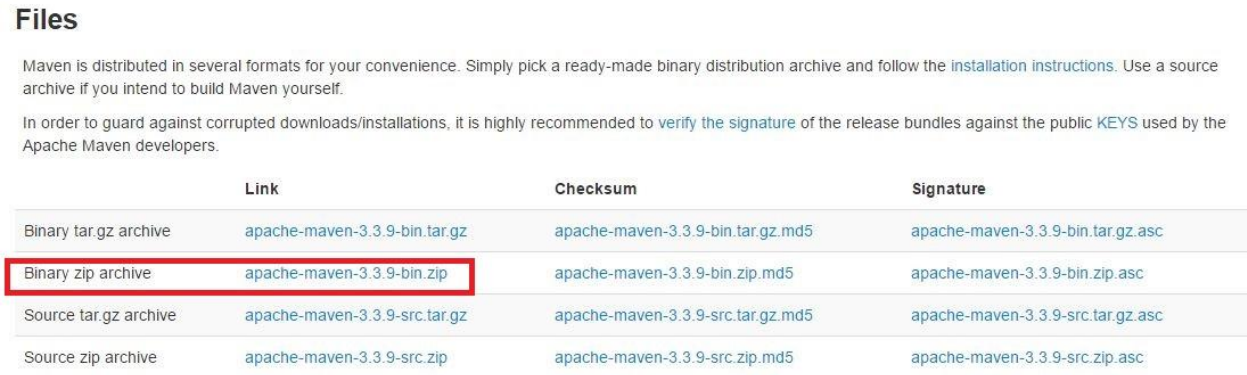


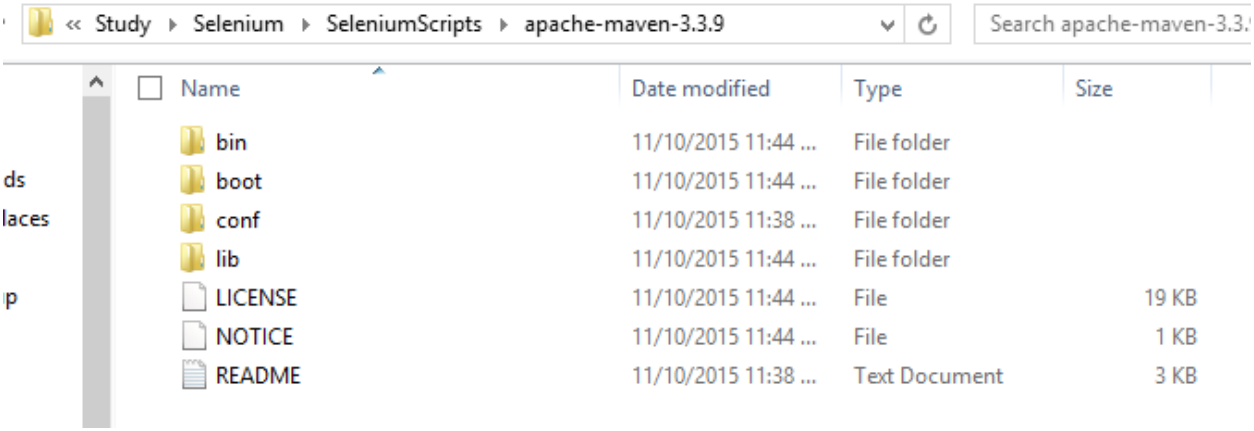
Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the installation instructions. Use a source archive if you intend to build Maven yourself.

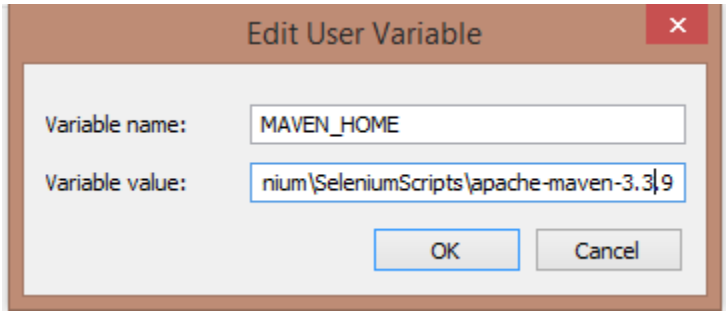
In order to guard against corrupted downloads/installations, it is highly recommended to verify the signature of the release bundles against the public KEYS used by the Apache Maven developers.

	Link	Checksum	Signature
Binary tar.gz archive	apache-maven-3.3.9-bin.tar.gz	apache-maven-3.3.9-bin.tar.gz.md5	apache-maven-3.3.9-bin.tar.gz.asc
Binary zip archive	apache-maven-3.3.9-bin.zip	apache-maven-3.3.9-bin.zip.md5	apache-maven-3.3.9-bin.zip.asc
Source tar.gz archive	apache-maven-3.3.9-src.tar.gz	apache-maven-3.3.9-src.tar.gz.md5	apache-maven-3.3.9-src.tar.gz.asc
Source zip archive	apache-maven-3.3.9-src.zip	apache-maven-3.3.9-src.zip.md5	apache-maven-3.3.9-src.zip.asc

Extract the file

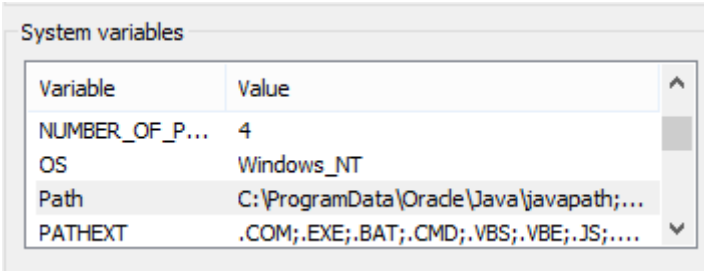


Now Declare Maven in Environment Variable.



Variable Name: MAVEN_HOME

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

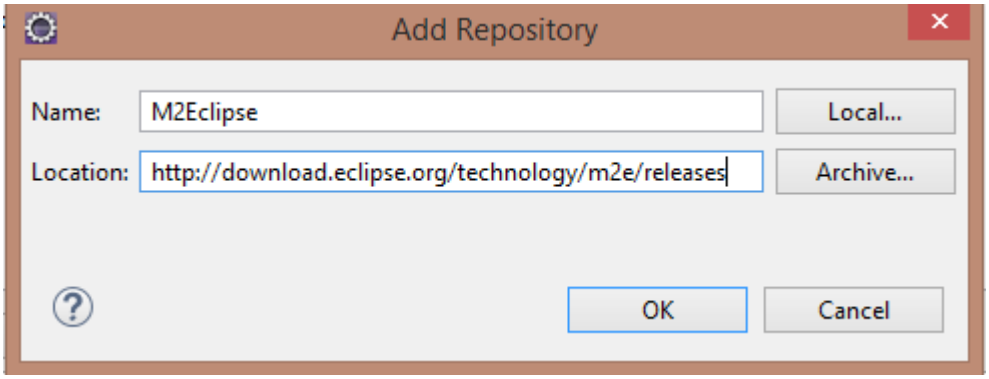


path Name: Path

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

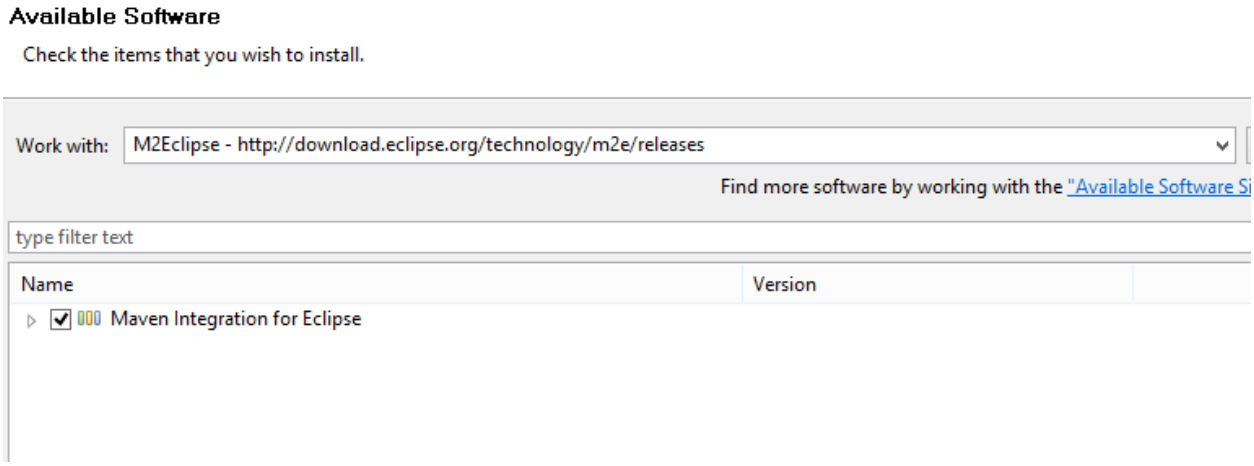
Now Add the Maven Plugin in Eclipse . If you have Eclipse luna /higher version no need to add plugin because Maven is inbuild after Kepler.

*open Eclipse Kepler->help->Install new software->Add



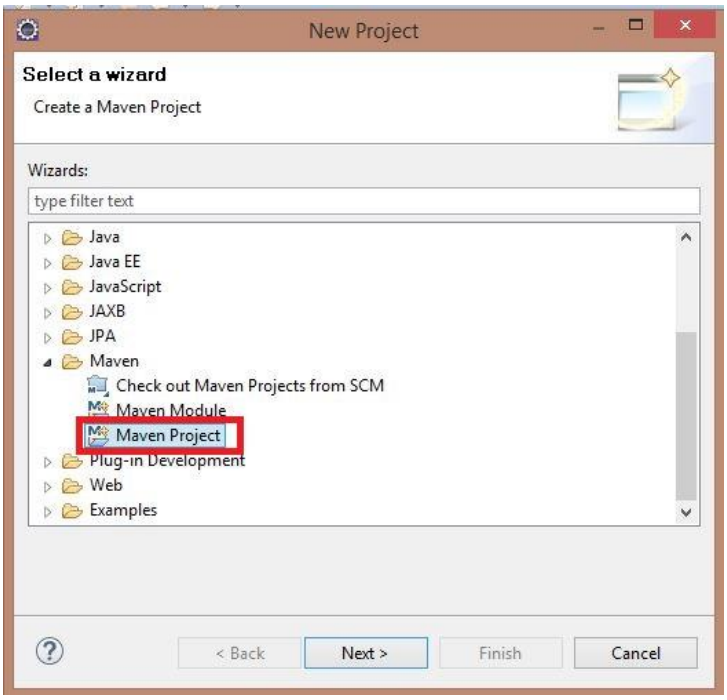
Press ok .

Check the maven integration for eclipse and proceed the installation.

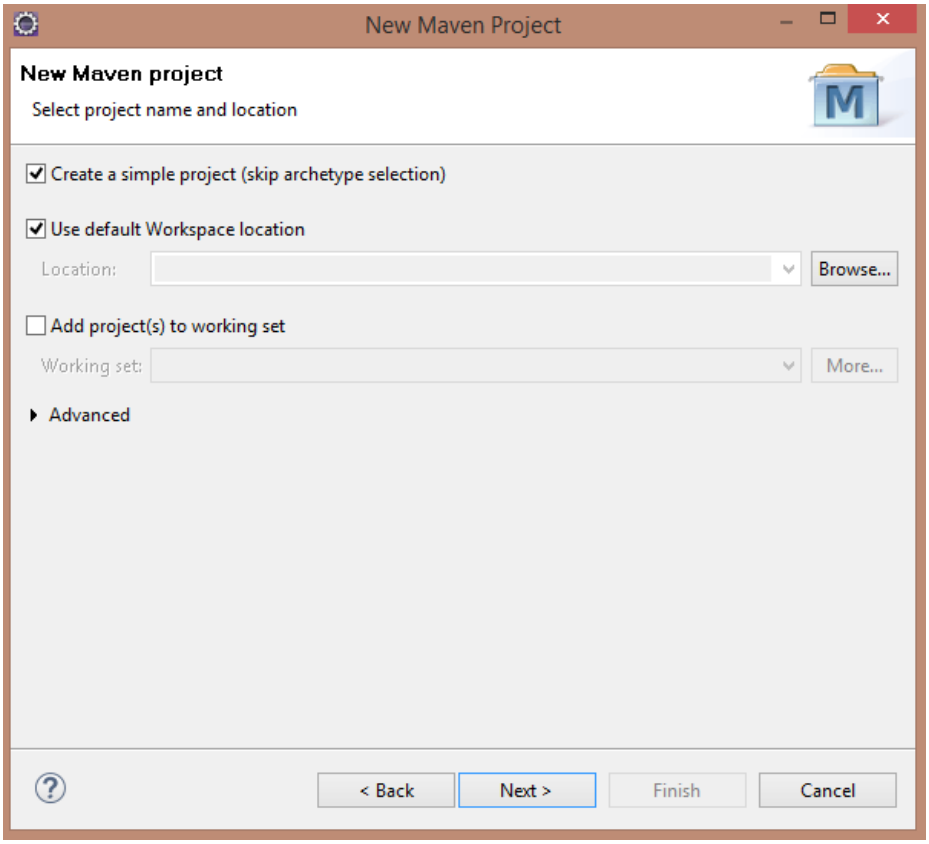


*Create New Maven Project.

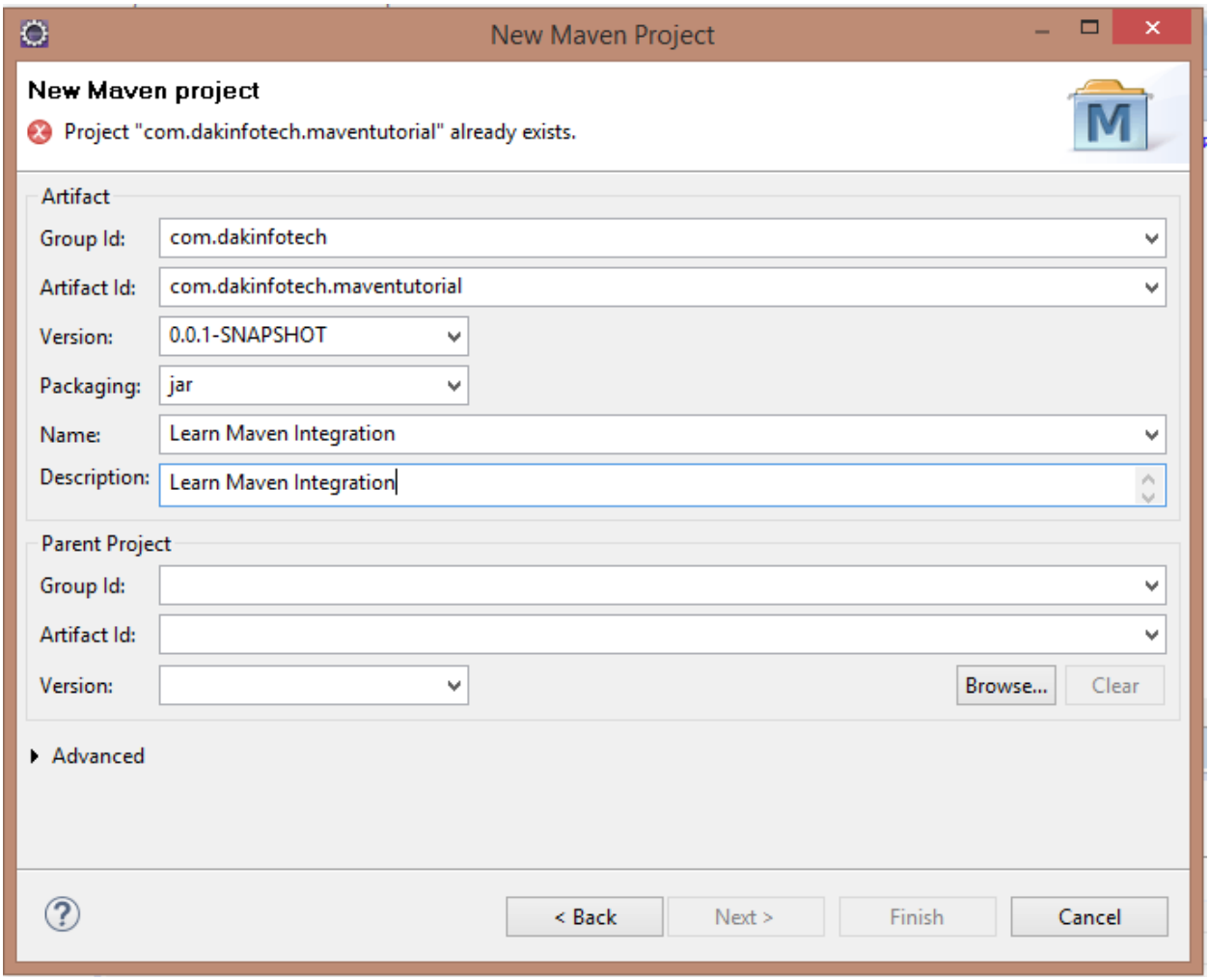
File->Project->Maven project



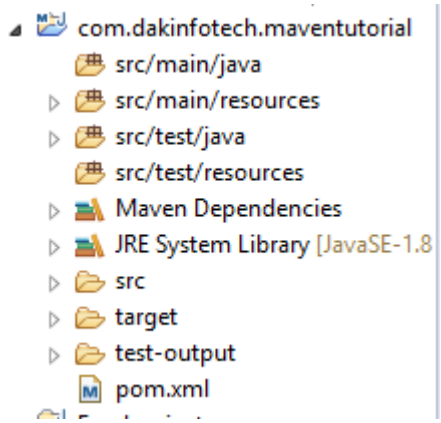
*Check the Create a simple project and press next.



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, selenium assign latest version).

```
<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>
```

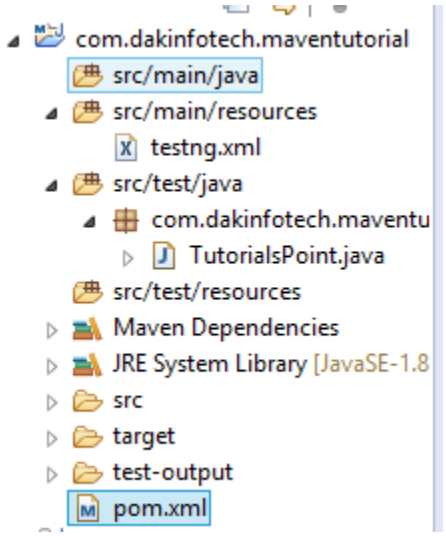
*Create a class in src/test/java

```
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 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.

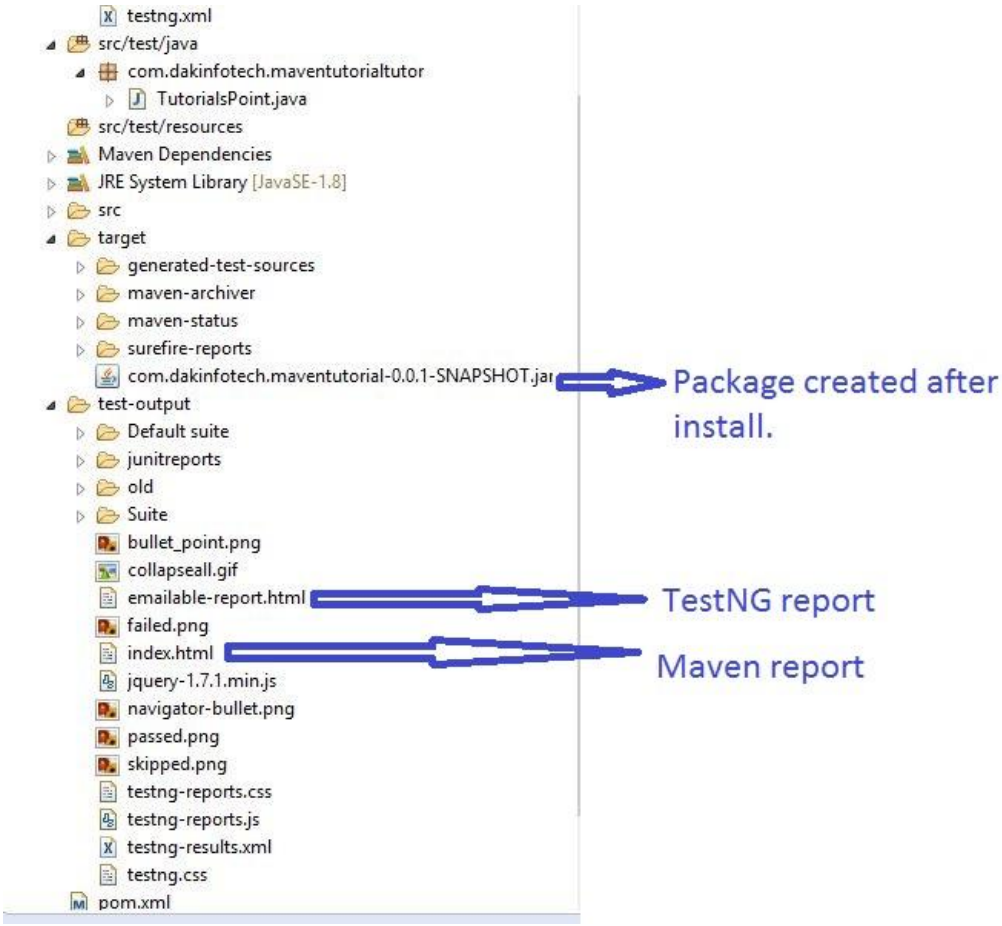
>mvn install =>it will build the package and run the test.

```
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>
```

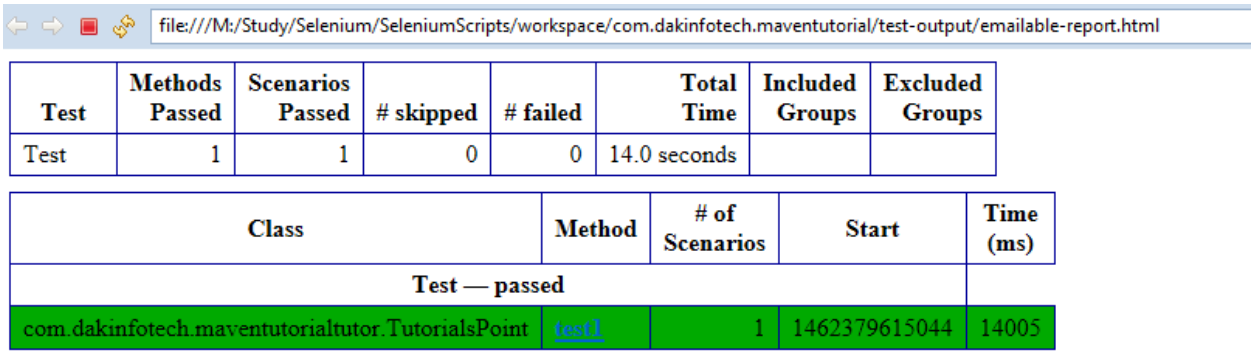
```
-------------------------------------------------------
 T E S T S
-------------------------------------------------------
Running TestSuite
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 19.758 sec - in TestSuite

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		

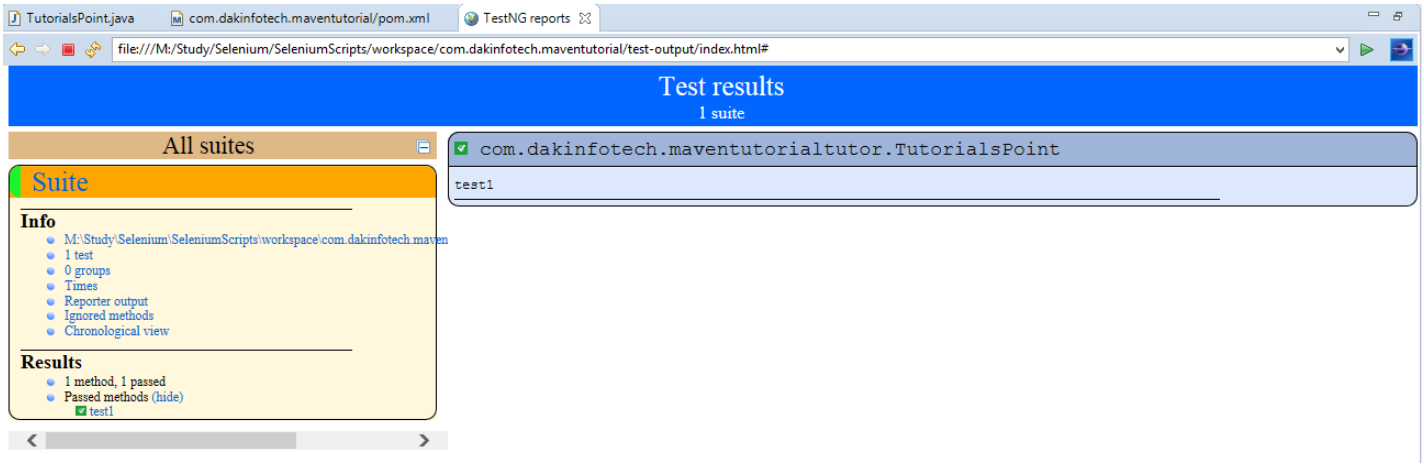
Class	Method	# of Scenarios	Start	Time (ms)
Test — passed				
com.dakinfotech.maventutorialtutor.TutorialsPoint	test1	1	1462379615044	14005

Test

com.dakinfotech.maventutorialtutor.TutorialsPoint:test1

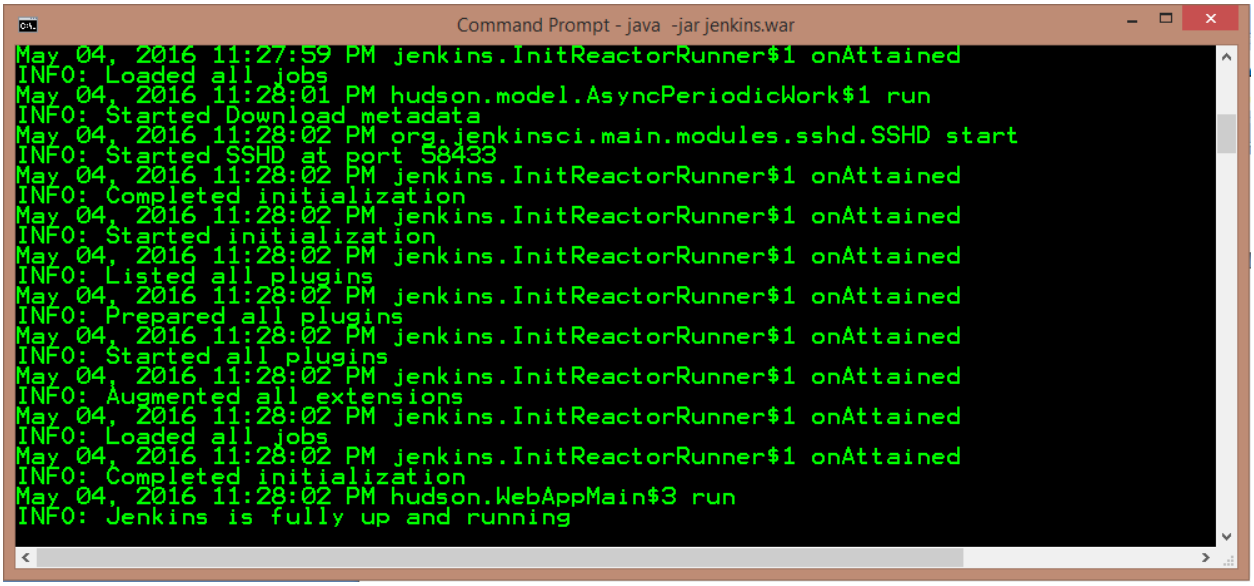
back to summary

Maven Report:

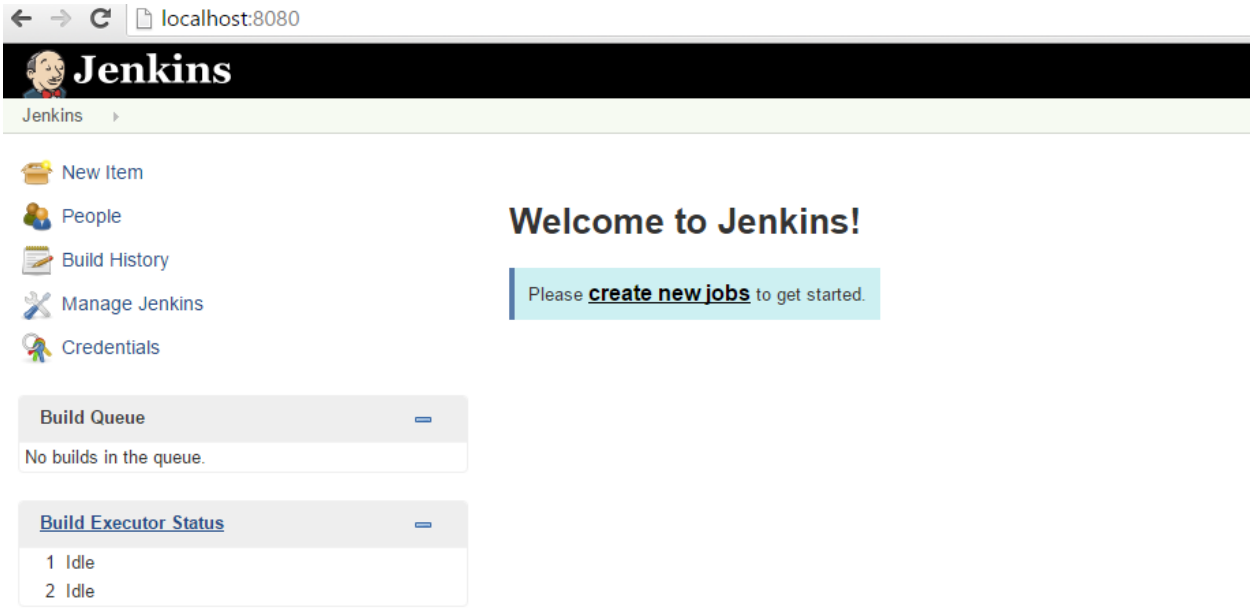


Integration of Selenium Webdriver with Maven and Jenkins

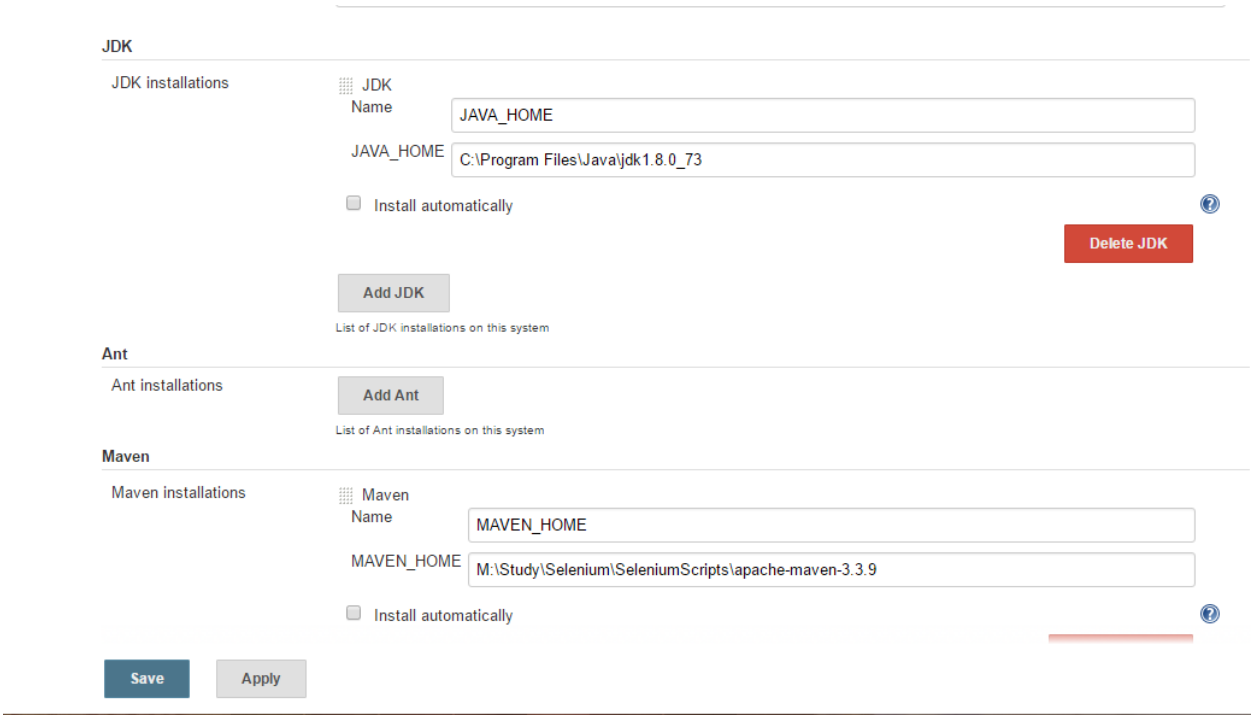
*Run the java -jar jenkins.war(cmd) file wait till jenkins is UP and RUNNING.



*Now open the jenkins URL in browser. http://localhost:8080/

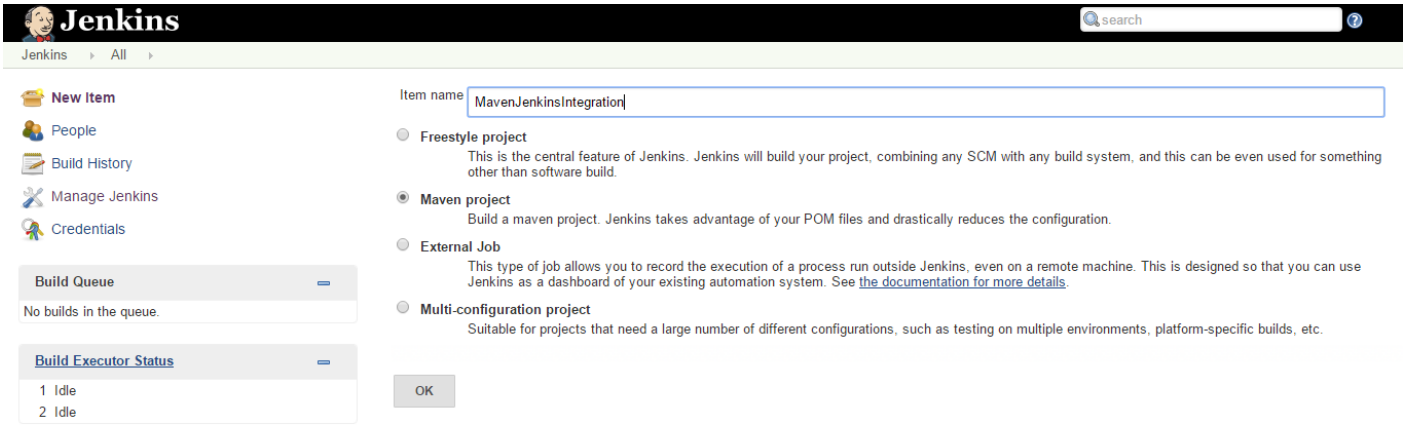


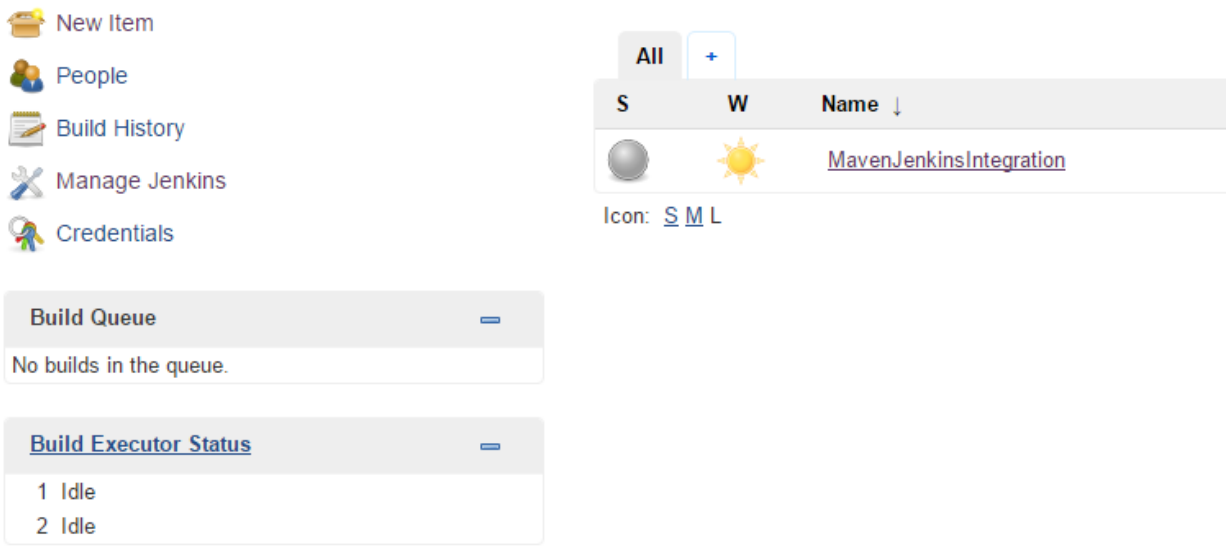
Go to Manage Jenkins->Configure System. Add the JDK Installation and Maven Installation then save it.



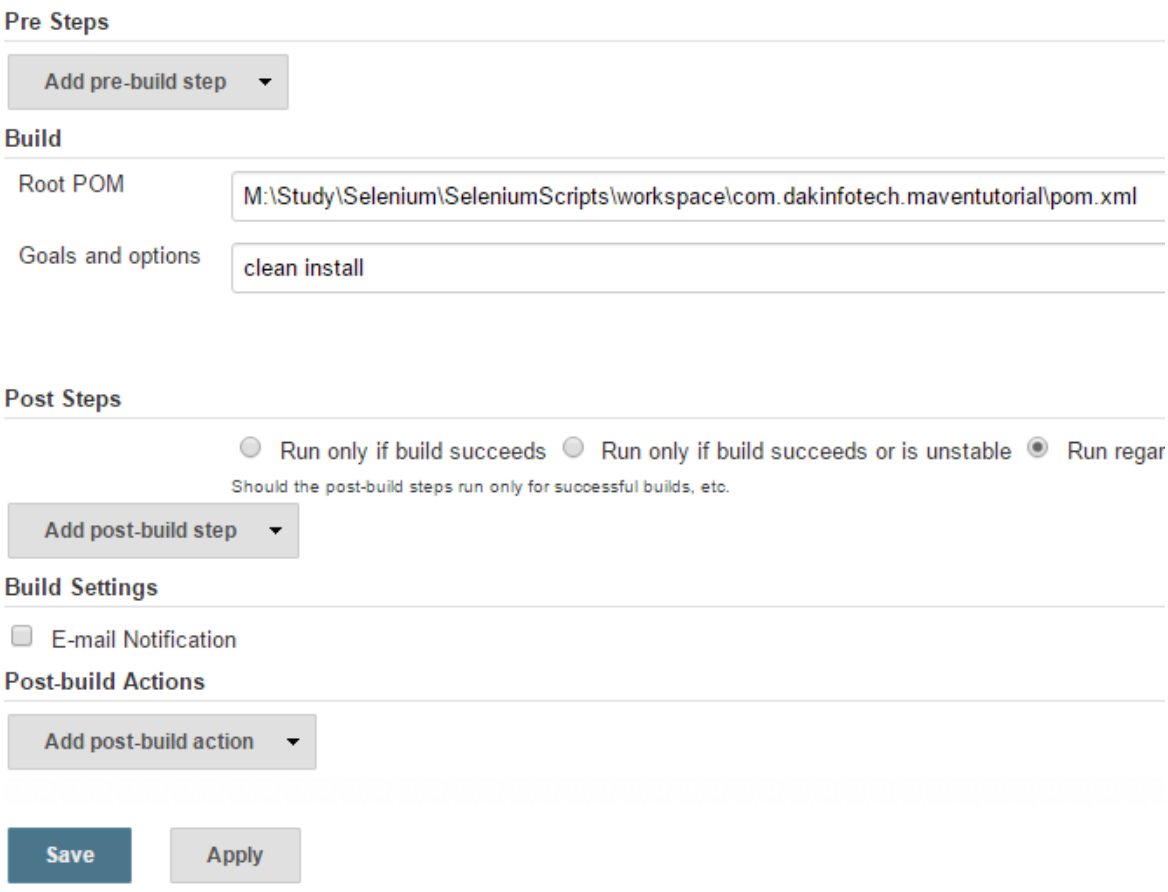
Refer Environment variable.

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

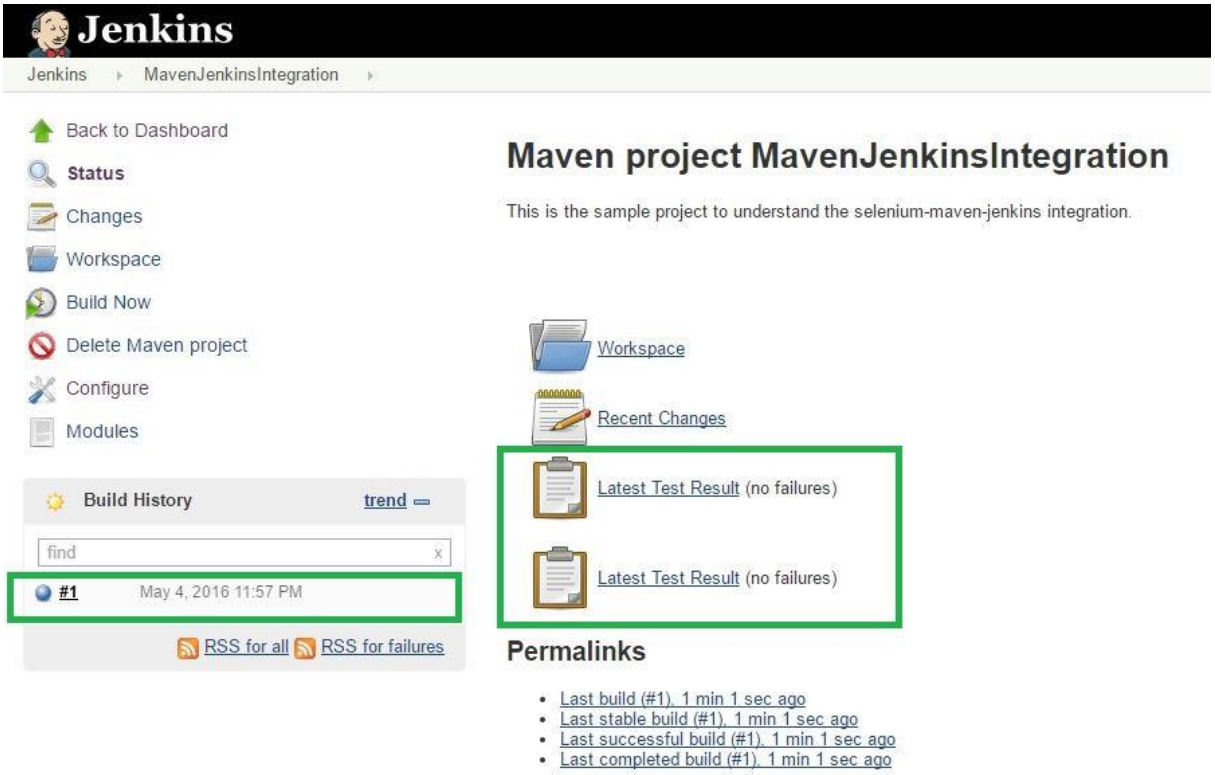




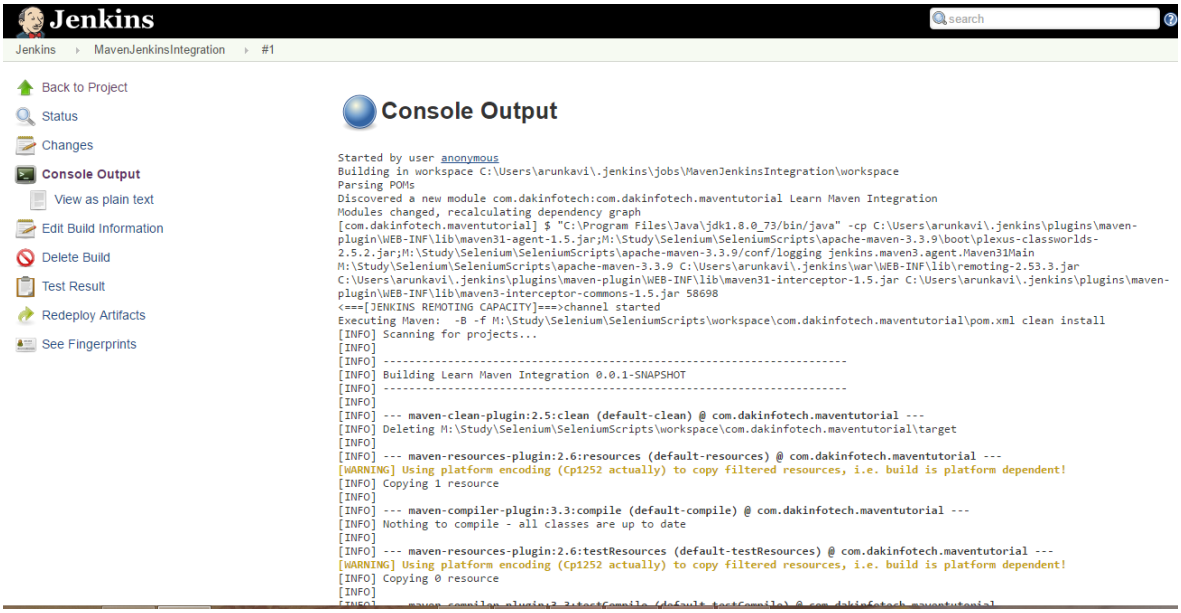
Project is created.->open the project->configure the root pom and save it.



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.


Jenkins
search
Jenkins › MavenJenkinsIntegration › #1
Back to Project
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete Build
Test Result
Redeploy Artifacts
See Fingerprints
Console Output
Started by user anonymous
Building in workspace C:\Users\arunkavi\.jenkins\jobs\MavenJenkinsIntegration\workspace
Parsing POMs
Discovered a new module com.dakinfotech:com.dakinfotech.maventutorial Learn Maven Integration
Modules changed, recalculating dependency graph
[com.dakinfotech.maventutorial] $ "C:\Program Files\Java\jdk1.8.0_73/bin/java" -cp C:\Users\arunkavi\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven31-agent-1.5.jar;M:\Study\Selenium\SeleniumScripts\apache-maven-3.3.9\boot\plexus-classworlds-2.5.2.jar;M:\Study\Selenium\SeleniumScripts\apache-maven-3.3.9/conf/logging jenkins.maven3.agent.Maven31Main M:\Study\Selenium\SeleniumScripts\apache-maven-3.3.9 C:\Users\arunkavi\.jenkins\war\WEB-INF\lib\remoting-2.53.3.jar C:\Users\arunkavi\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven31-interceptor-1.5.jar C:\Users\arunkavi\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-interceptor-commons-1.5.jar 58698
<===[JENKINS REMOTING CAPACITY]===>channel started
Executing Maven: -B -f M:\Study\Selenium\SeleniumScripts\workspace\com.dakinfotech.maventutorial\pom.xml clean install
[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] --- maven-resources-plugin:2.6:resources (default-resources) @ com.dakinfotech.maventutorial ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 1 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.3:compile (default-compile) @ com.dakinfotech.maventutorial ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ com.dakinfotech.maventutorial ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]

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