We can execute our script in many ways –

1. In Eclipse directly running class file
2. Through testng.xml file
3. Through pom.xml file
4. Maven cli
5. Batch file
6. Jenkins
7. Git plus Jenkins
8. Create a new maven project. Name GroupID and ArtifactID as **Executions**
9. Create a package called **package1**
10. Create a class called **AssertStmt**

**package** mavenJenkins;

**import** org.testng.Assert;

**import** org.testng.annotations.Test;

**public** **class** AssertStmts {

@Test

**public** **void** positiveDigit() {

System.***out***.println("Welcome to jenkins world");

**int** a=4,b=6;

**int** c = a+b;

**if**(c>0) {

Assert.*assertTrue*(**true**);

System.***out***.println("It is positive digit");

}

**else**

{

Assert.*assertTrue*(**false**);

System.***out***.println("It is negative digit");

}

}

@Test

**public** **void** failConsciously() {

Assert.*assertTrue*(**false**);

}

}

1. Execute and verify the output.
2. Right click the class file -> TestNG -> Convert to TestNG
   1. Create testng.xml file
3. Execute testng.xml file and verify the output

**Execution through pom.xml**

1. To execute through pom file, we should add all the related dependencies in the pom file. It doesn’t work if you have downloaded and added jar files only.
2. Since we have created test with only testng, lets add dependency for testng

<dependencies>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.3</version>

<scope>test</scope>

</dependency>

</dependencies>

1. We also need to add some plugins in pom.xml above dependencies in order to run

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-surefire-plugin</artifactId>

<version>2.18.1</version>

<configuration>

<suiteXmlFiles>

<!-- TestNG suite XML files -->

<suiteXmlFile>testng.xml</suiteXmlFile>

</suiteXmlFiles>

</configuration>

</plugin>

</plugins>

</build>

1. In case you have any doubts with pom.xml refer below



1. Right click pom.xml and Run As ->Maven clean
2. Right click pom.xml and Run As ->Maven test should also execute the AssertStmt class

**Execution through maven cli**

Step1 - Download Maven using following URL: <https://maven.apache.org/download.cgi?Preferred=ftp%3A%2F%2Fmirror.reverse.net%2Fpub%2Fapache%2F>

(Download files apache-maven-3.5.0-bin.zip for windows)

Step 2 – Extract the Maven zip file that you just downloaded in Step 1

Step 3 – Setup Maven home path in System Variables ( Create Variable name: M2\_HOME, Variable Value: C:\apache-maven-3.5.0 (I extract Maven files on C:\apache-maven3.5.0 folder. If you have created different folder select your folder where you unzipped the files)

Step 4 – Provide path for \bin folder

Step 5 – Verify your machine is detecting Maven or not. (If not work, restart your machine). Open Command prompt and type below command in Red.

Command: **mvn -version**

1. In the command prompt, move to the folder where pom.xml file is present. (Workspace)
2. Enter the command maven clean
3. Enter command maven test

**Execution through batch file**

1. Open new notepad and enter the following code –

CALL mvn test

1. Save the file as run.bat where pom.xml is present.
2. Double click to run the batch file. It should now run your tests.