Suppose we have an application called Gmail, so the testing flow which actually happens in the company is like that

From developer side

Automate unit test case using unit Testing tools

Create unit Test Cases

Develop code To perform sign up

New User Registration

Develop code

Results Report

Automate unit test case using unit Testing tools

Create unit Test Cases

Develop code to perform sig in

Sign in

| | | |

| | | |

100 test cases

Inbox

C0llect all the unit automated test cases of all the modules and create a build

Install on the test server

.exe  
.zip  
.war

All Modules

Build software

Black box Testing

Smoke   
 Regression

TestNg:(Test Next Generation)  
\*\*\*\*Steps to install TestNg:-  
TestNg is available as plug-in in Eclipse

Step1:- Open Eclipse go to help option and choose go to Eclipse marketplace,

Step2:- Search for TestNg

Step3:-Click on install button available under TestNg for eclipse

Step4:-Click On Conform

Step5:- accept License agreement and click finish

---🡪 During installation click ok button in popup  
---🡪 finally Restart the Eclipse.

\*\*\*Steps to Integrate TestNg to Current Project…

* Right click on current project
* Go to the build path and choose configured build path
* Click on libraries
* Click on add libraries
* Select TestNg and click on next button
* Click on finish button
* Click on Ok button

\*\*Automatically TestNg Component is listed under project

Some important guideline:

Class Demo{

psvm(String[] args){

…………………..  
……………………….  
……………………………  
}  
}

For java execution it is necessary to present main method

Java

Simillary:

Auto method execution

Present inside TestNg class

It should be public and void

Define methods

@Test

TestNg

Need to present @test annotation

Steps to Create TestNg Class:-

Approach1:-Create java Class And Add @Test annotation

Approach2:-Right Click On Package go to TestNg and Choose Create TestNg class  
Provide class name and click on finish button.

Annotations of TestNg:

@Test annotation

* Annotation is define inside a class
* Annotation is always attach with the method
* Method should be public and it can be static or non static
* Method will not return any data or information therefore return type will be void
* Automatically the method will get executed through testNg
* After execution it will generate three different type of report
* 1. Eclipse console report
* 2.TestNg can console sole report
* 3. Html report or emailable report

\*emailable report present in test output folder.