# 11. Integrating Selenium with Jenkins

### 1. Creating a Maven project

- Open Eclipse
- Go to the File menu. Choose New->Other->Maven->Maven Project
- On the New Maven Project dialog, select Create a simple project and click Next
- Enter SeleJenk in Group Id and Artifact Id and click on Finish

### 2. Editing the pom.xml and adding Selenium and JUnit dependencies

- In the Project Explorer, expand the project SeleJenk
- Select pom.xml from Project Explorer
- Enter the following code:

```
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>SeleJenk
  <artifactId>SeleJenk</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>
    <dependency>
      <groupId>junit
      <artifactId>junit</artifactId>
      <version>3.8.1</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>2.45.0</version>
    </dependency>
    <dependency>
      <groupId>org.testng</groupId>
      <artifactId>testng</artifactId>
      <version>6.14.2</version>
      <scope>test</scope>
```

### 3. Adding TestNG libraries to the Class Path

- In the Project Explorer, right click on **Test Assertions**
- Select Properties. Select Java Build Path from the list. Go to Libraries
- Click on Add Library. Select TestNG (Refer FSD: Lab Guide Phase 5). Click on Next. Click on Finish
- Click on Apply and Close

</project>

#### 4. Creating a TestNG class named NewTest

- In the Project Explorer, expand SeleJenk
- Right click on SeleJenk. Click on New->Other->TestNG->TestNG Class
- Enter Package name as com.example and NewTest in the Name textbox and click on Finish
- Enter the following code:

```
package com.example;
```

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
```

```
import org.testng.annotations.Test;
import org.testng.asserts.SoftAssert;
public class NewTest {
     private WebDriver driver;
     SoftAssert soft=new SoftAssert():
     @Test
     public void testEasy() {
       System.setProperty("webdriver.chrome.driver", "
C:\Users\hp\Downloads\chromedriver win32\\chromedriver.exe");
       driver=new ChromeDriver();
       driver.get("https://www.facebook.com");
       String title = driver.getTitle();
       soft.assertEquals("FB Login",title);
     }
     @BeforeTest
     public void beforeTest() {
       driver = new FirefoxDriver();
     @AfterTest
     public void afterTest() {
       driver.quit();
}
```

### 5. Converting the project into TestNG and changing the run configuration

- In the Project Explorer, expand **SeleJenk**
- Right click on SeleJenk and choose TestNG->convert to TestNG

## 6. Running the project as Maven test

- Right click on **SeleJenk**
- Click on Run AS->Maven Test

## 7. Installing Jenkins

- Jenkins is already installed in your Practice lab.(Refer FSD: Lab Guide Phase
   5)
- Use the following commands to navigate to the above-mentioned directory.

```
cd /usr/share
Is
```

### 8. Adding Maven plugins to Jenkins

- In the Jenkins dashboard, click on Manage Jenkins
- Click on Manage Plugins
- Select the **Available** tab, then find the **Maven Integration** plugin
- Click Install without restart

### 9. Adding the location of pom.xml in Jenkins Cl Job

- Click on New Item to create CI Job
- Select the Maven project radio button and enter Item Name as SeleJenk
- Click on **Build Environment**
- In Root POM, specify the location of pom.xml from your Eclipse workspace
- In Goals and Options, type clean test. Click on Save
- Click on the **SeleJenk** project page and click on the **Build Now** link

#### Pushing the code to your GitHub repositories : -

- Open your folder where the Project . And then click the right button to open the git bash command prompt.
- Before that, open the github and create a new repository.
- Initialize your repository using the following command:

#### git init

- Add all the files to your git repository using the following command: git add.
- To check the status of the repository use the below command: git status
- Commit the changes using the following command: git commit . -m "Changes have been committed."
  - To add the files to the repository use the (URL) from the github and use the command;

git remote add origin <url>

• Push the files to the folder you initially created using the following command: git push origin master.