**Selenium Class**

# Chapter#3 – Selenium WebDriver Installation

1. **Selenium WebDriver Installation Steps**
2. **Code snippet to launch the Firefox browser**

In this Chapter, we will set up our test environment to run the Selenium automation suite. We will install Java, download Eclipse, add Selenium jars to an Eclipse project, and then provide you a sample script to test the Selenium WebDriver installation.

## Selenium WebDriver Installation Steps

Following steps will guide you through setting up Selenium WebDriver on your machine,

### Step.1. Configuring Java on a machine.

Download the latest version of the Java Development Kit(JDK) from Oracle.com. Follow the steps mentioned to install JDK. We are installing JDK as it will be required for developing and running our automation scripts which are nothing but Java programs.

<https://www.oracle.com/java/technologies/javase/jdk11-archive-downloads.html>

### Step.2. Download eclipse or any Java IDE of your choice.

Download the latest version of the Java IDE you would like to use. Select the appropriate version of Eclipse depending on your system type- 34 bit or 64 bit OS.

<https://www.eclipse.org/downloads/packages/>

### Step.3. Download Selenium WebDriver dependency from the Maven Repository

Download the Selenium Java bindings from the below maven repository.

<https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java/4.16.1>

### Step.4. Create a Maven Project and configure Selenium Dependency

1. Launch eclipse.exe.
2. Set your workspace to any location preferably other than C:(a workspace is a physical location where we store our project or group of related projects).
3. Now create a new project- File->New->Project…->Maven->Maven Project.
4. Name your project and click Finish.
5. Now you will see a project folder under your project.
6. Now, under your project folder you can see the pom.xml file.
7. The Selenium Java dependency should be added in the pom.xml file.
8. Right click on the project folder and click on update maven.

### Step.5. Creating the first Selenium WebDriver project

Time to test the setup. Now, we will create our first selenium project, in which we will just open the Firefox browser and launch a website. The following steps are required to launch the firefox browser.