## 🚀 **Step 1: Prerequisites**

Make sure these are installed:  
1️⃣ Java JDK 11 or above  
2️⃣ Eclipse IDE for Java Developers (or Eclipse IDE for Java + Web)  
3️⃣ Maven (optional if Eclipse manages it)  
👉 We will let Maven handle Selenium dependencies, so no manual JAR downloads.

## 🚀 **Step 2: Create a Maven Project**

1️⃣ Open Eclipse  
2️⃣ File → New → Other… → Search Maven → Select Maven Project → Next  
3️⃣ Check Create a simple project (skip archetype selection) → Next  
4️⃣ Enter:

* Group Id: com.example
* Artifact Id: SeleniumTest
* Version: 1.0-SNAPSHOT

👉 Click Finish

## 🚀 **Step 3: Update** pom.xml **with Selenium dependency**

Double-click pom.xml → Switch to pom.xml tab (source view) → Add:

<dependencies>

<!-- Selenium Java dependency -->

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

<version>4.20.0</version> <!-- Replace with latest stable -->

</dependency>

<!-- (Optional) WebDriver Manager to avoid manual driver setup -->

<dependency>

<groupId>io.github.bonigarcia</groupId>

<artifactId>webdrivermanager</artifactId>

<version>5.8.0</version> <!-- Replace with latest stable -->

</dependency>

</dependencies>

💡 Maven will download everything you need.

## 🚀 **Step 4: Write your first Selenium code**

👉 In src/main/java, create package com.example.selenium  
👉 Create a class: FirstTest.java

package com.example.selenium;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class FirstTest {

public static void main(String[] args) {

// Setup ChromeDriver using WebDriverManager

WebDriverManager.chromedriver().setup();

// Initialize WebDriver

WebDriver driver = new ChromeDriver();

// Open Google

driver.get("https://www.google.com");

// Print the title

System.out.println("Title: " + driver.getTitle());

// Close the browser

driver.quit();

}

}

## 🚀 **Step 5: Run the test**

👉 Right-click FirstTest.java → Run As → Java Application  
👉 Chrome should open, navigate to Google, and print the title in Eclipse console.

## ⚡ **Summary**

✅ No need to download drivers manually — WebDriverManager handles it.  
✅ Maven downloads Selenium & WebDriverManager.  
✅ You can manage dependencies easily through pom.xml.

## 📝 **Bonus tips**

* You can add other drivers (Firefox, Edge) similarly using WebDriverManager.
* For test frameworks (e.g., TestNG, JUnit), you can extend this setup.

🌟 Final pom.xml example

<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.example</groupId>

<artifactId>SeleniumTest</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

<version>4.20.0</version>

</dependency>

<dependency>

<groupId>io.github.bonigarcia</groupId>

<artifactId>webdrivermanager</artifactId>

<version>5.8.0</version>

</dependency>

</dependencies>

</project>