

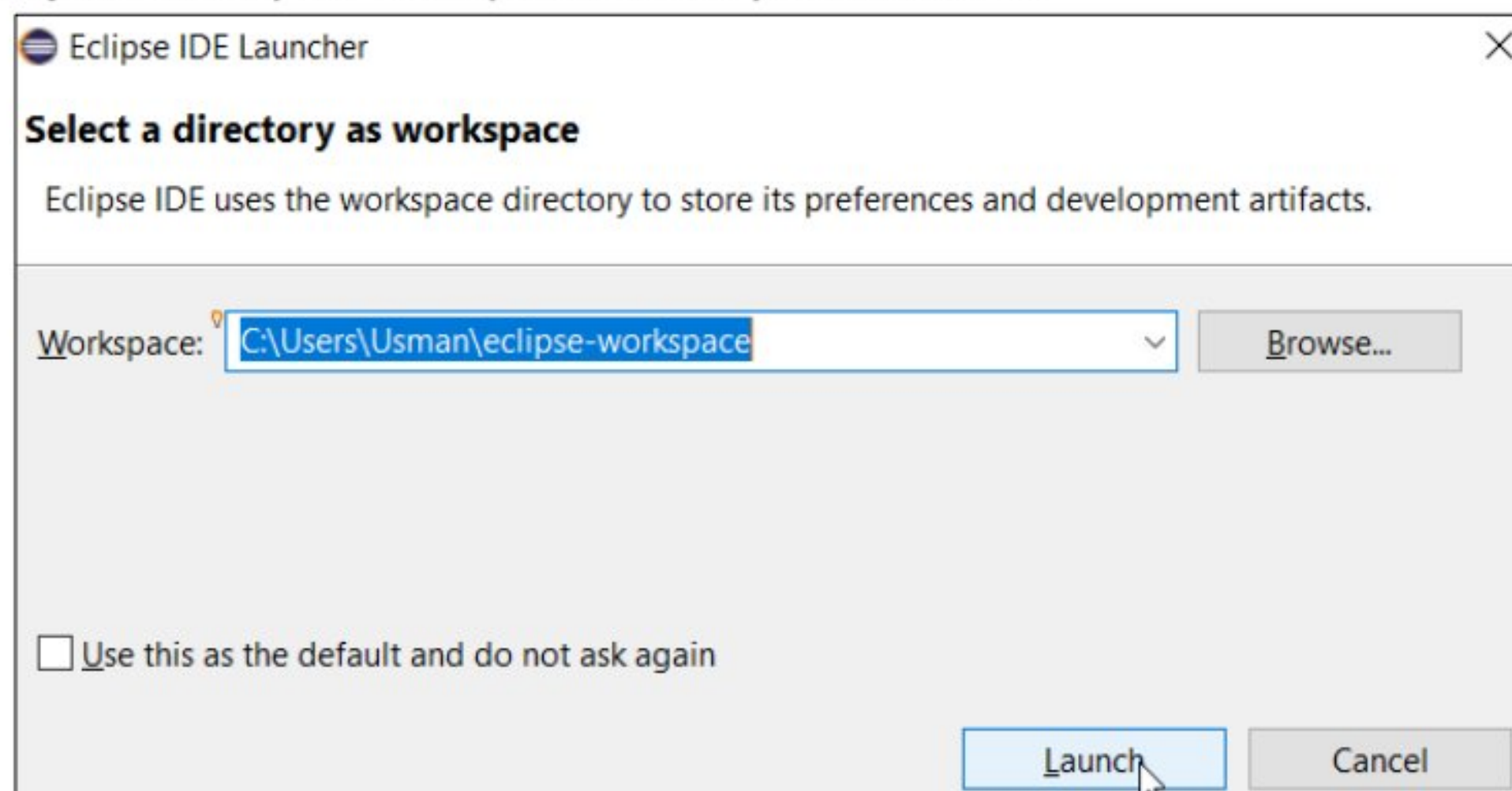
#AIM: Write and test a program to get the number of items in a list/combo box.

PRE-REQUISITES:

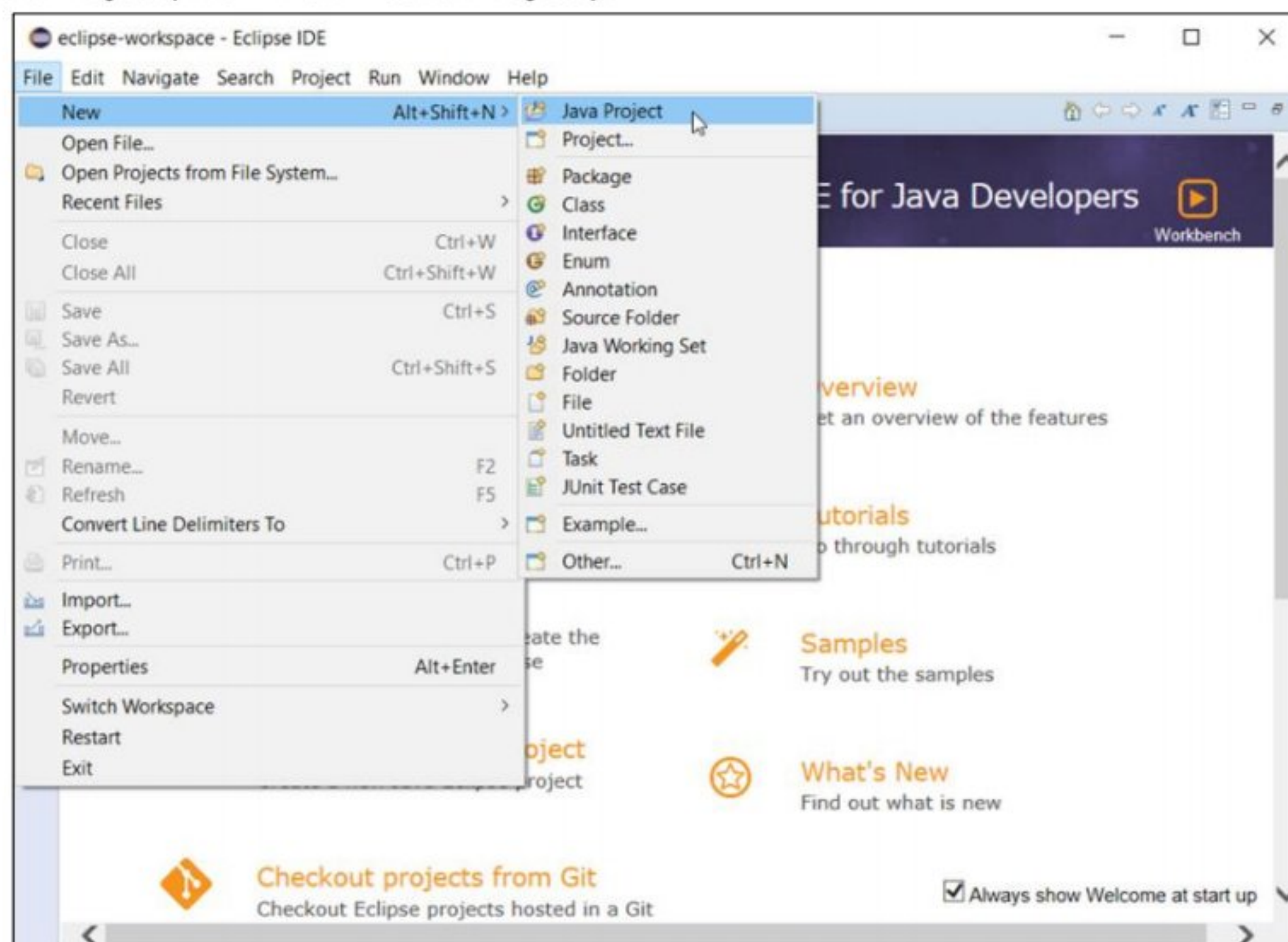
- 1) Check that you have **JDK**.
- 2) Check that you have **Eclipse IDE**.
- 3) Check that you have **Selenium Server Driver and Client Driver(JAR files)**.
- 4) Check that you have **Gecko Driver**.
- 5) Check that you have a stable Internet connection.

STEPS:

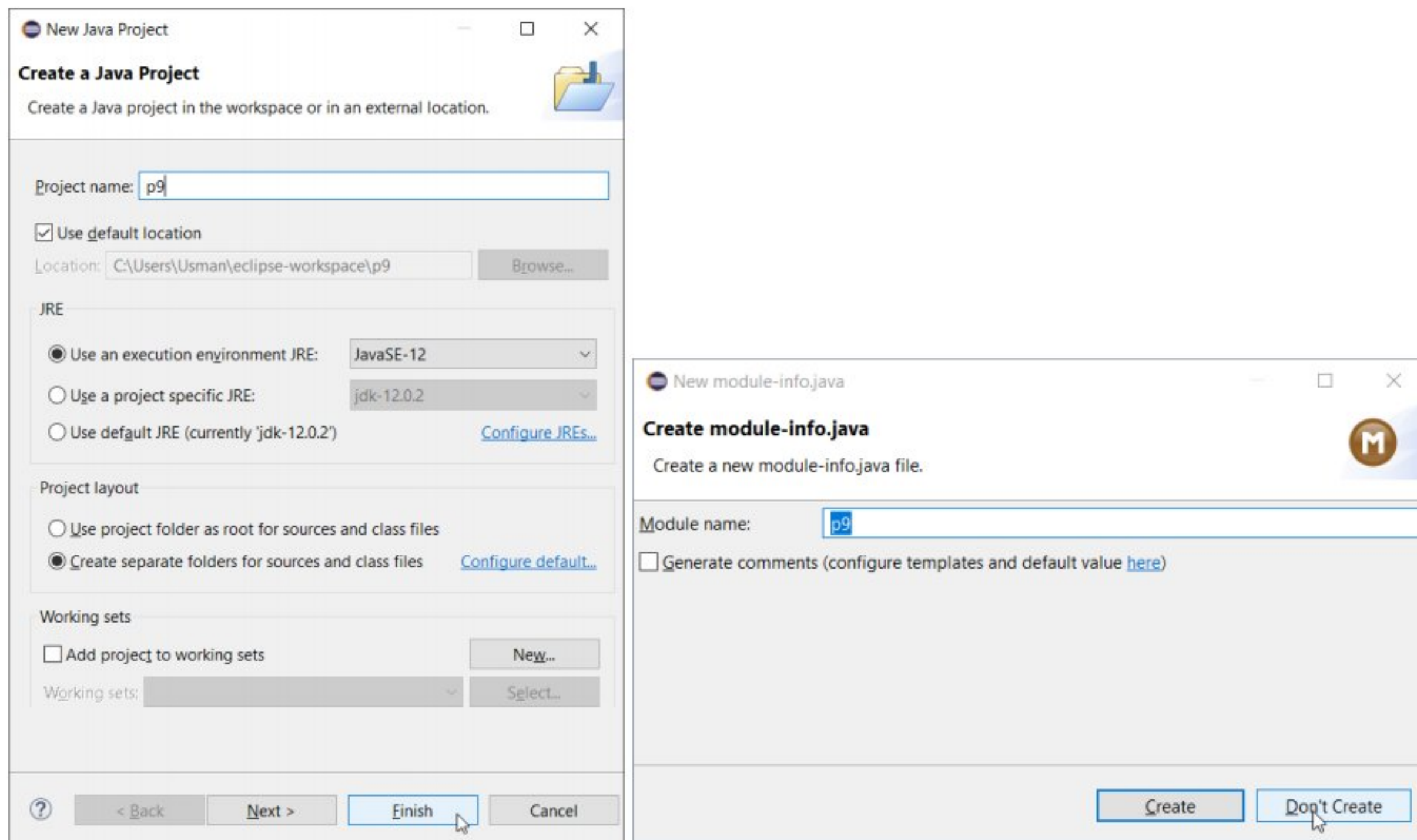
- 1) **Open Eclipse.** Select your workspace directory. Click **Launch**:



- 2) **Create a Project(File > New > Java Project):**

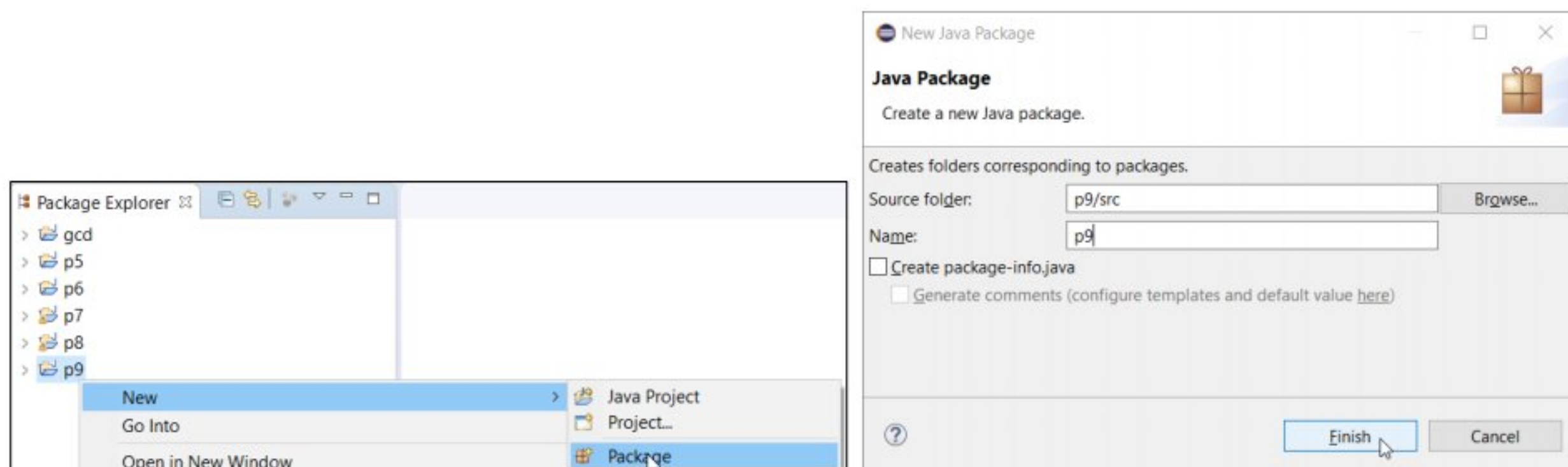


3) Name the project as “p9” > click **Finish** > click **Don’t Create** module:

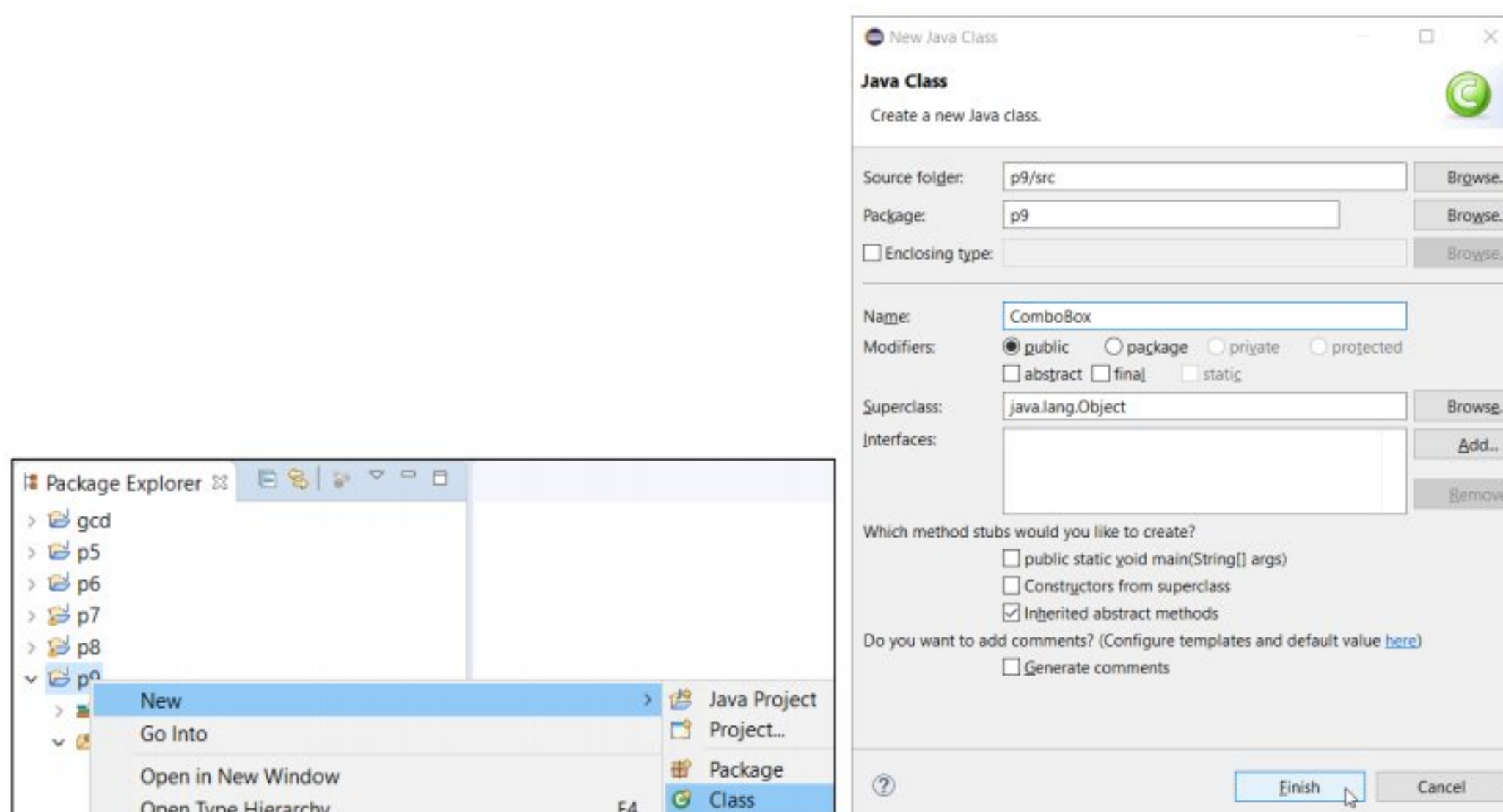


4) Close the “Welcome” tab.

5) Create a Package(right-click on Project Name > New > Package > Name it > Finish):

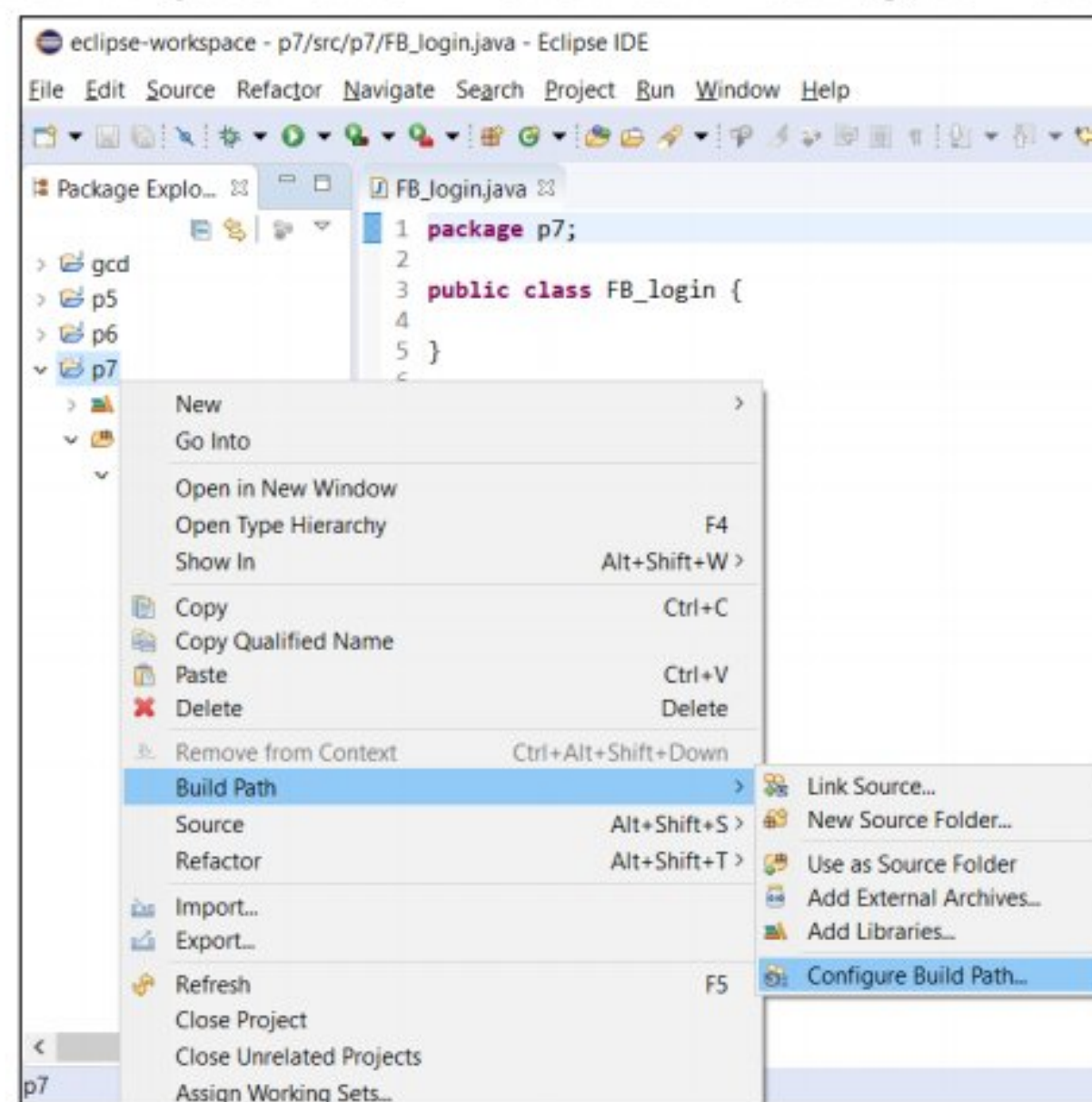


6) Create a Class(right-click on Project Name > New > Class > Name it > Finish):

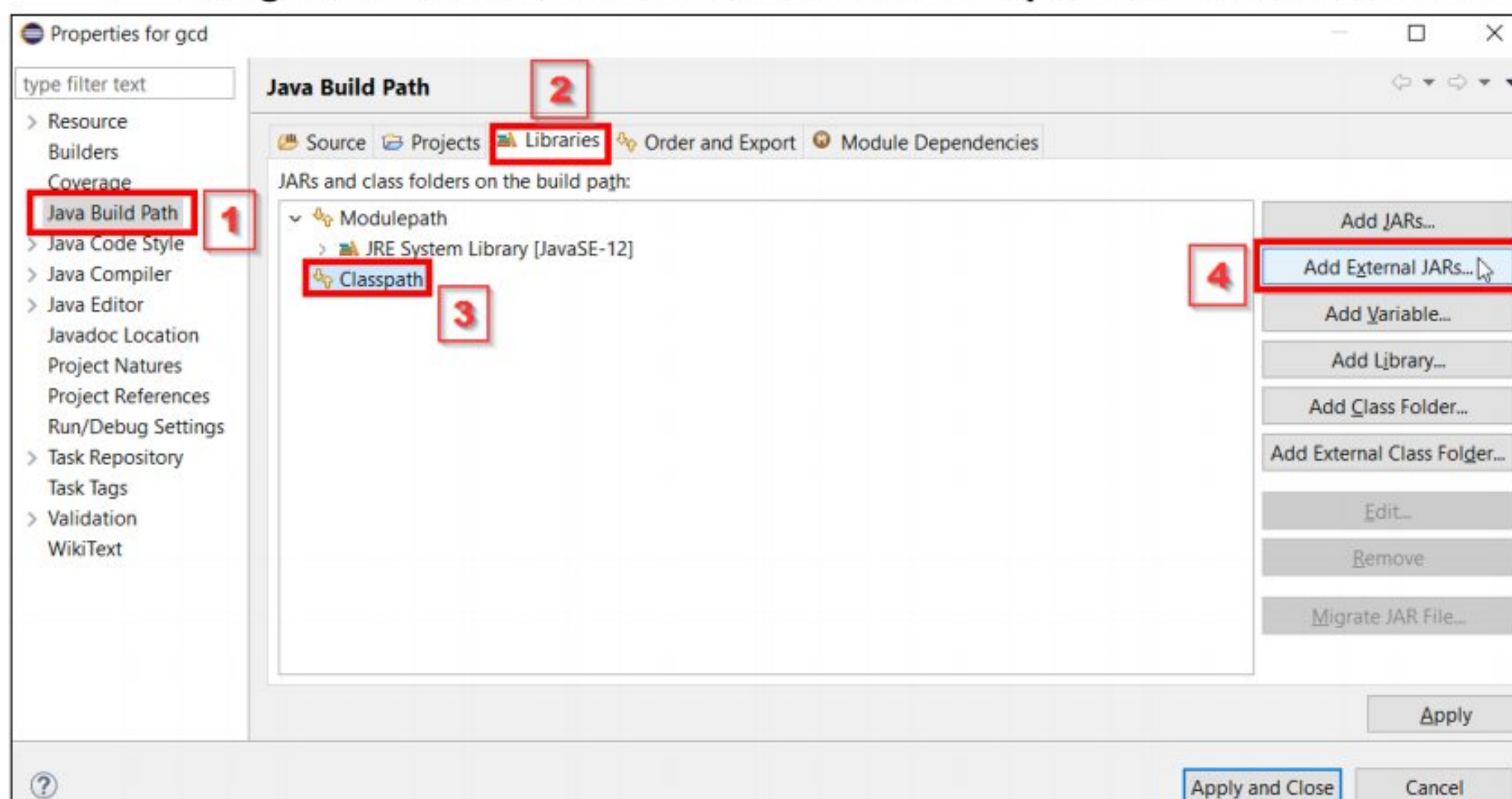


7) Adding “Selenium Server Driver and Client Driver(JAR files)” in Eclipse IDE:

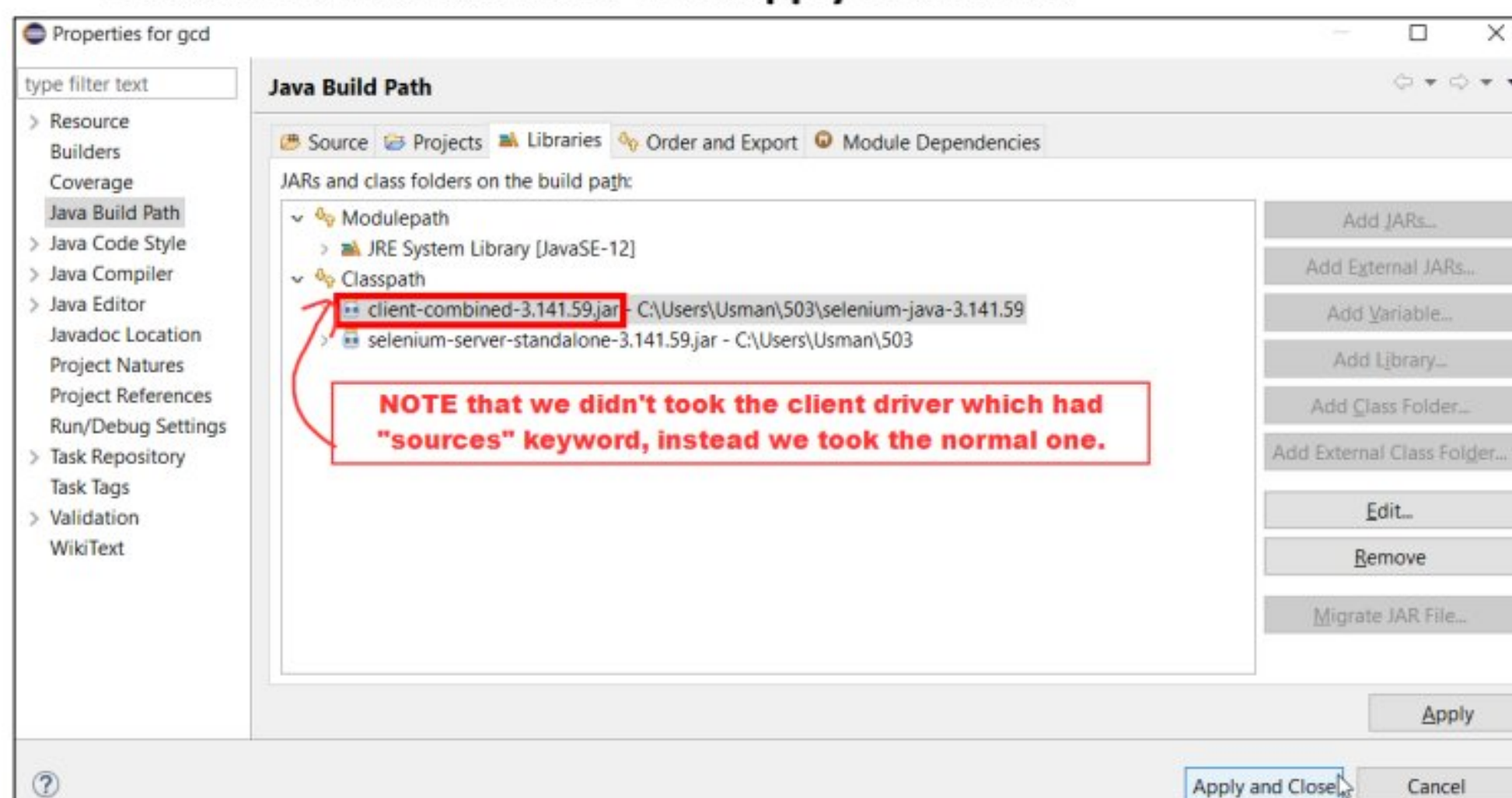
- right-click on Project Name > Build Path > Configure Build Path...



- now go under: Java Build Path > Libraries > Classpath > click Add External JARs...



- Browse and add JAR files > click Apply and Close :



- 8) Create HTML file in a notepad > Save it > Open it in browser > Copy the URL:
(NOTE THAT: as this is our LOCAL FILE, this file will be opened thru STATIC URL in script)

---(combobox.html)---

```
<select id="continents">
    <option value="Asia">Asia</option>
    <option value="Europe">Europe</option>
    <option value="Africa">Africa</option>
</select>
```



- 9) Creating the **script** in JAVA:
(NOTE that this **script** will be run by Eclipse IDE)
(In simple words, it's like we are
-ordering Eclipse to run a script or to do a job
-of opening the browser, visiting the URL
-and finding the WebElement By "ID" with the help of "Select" class and Selenium Drivers
-and to show the result.
-Hence automating the work in browser)
- Now we'll put the path of our LOCAL FILE(combobox.html) in a string
 - Also put the path of "geckodriver" in a String **driverPath**

---(ComboBox.java)---

```
package p9;

import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.*;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.firefox.FirefoxProfile;
import org.openqa.selenium.firefox.internal.ProfilesIni;
import org.openqa.selenium.support.ui.Select;

public class ComboBox {
    static String driverPath = "C:\\\\Users\\Usman\\503\\geckodriver.exe";
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);
        //NOTE THAT: following commented lines are required for old machines
        //DesiredCapabilities capabilities = DesiredCapabilities.firefox();
        //capabilities.setCapability("marionette", true);
        //ProfilesIni allProfiles = new ProfilesIni();
        //FirefoxProfile fp = new FirefoxProfile();
        //fp.setPreference(FirefoxProfile.PORT_PREFERENCE, "7055");
        //FirefoxOptions options = new FirefoxOptions();
```



```

//options.setProfile(fp);
WebDriver driver = new FirefoxDriver();
String appUrl = "https://www.toolsqa.com/automation-practice-form/";
//DYNAMIC URL(WEBSITE)
//String appUrl = "
file:///D:/Usman/College/503%20pracs/combobox.html"; //STATIC URL(LOCAL FILE)
driver.get(appUrl);

Select oSelect = new
Select(driver.findElement(By.id("continents")));
//Select oSelect = new
Select(driver.findElement(By.tagName("select"))); //this works too

List<WebElement> oSize = oSelect.getOptions();
int iListSize = oSize.size();

for(int i =0; i < iListSize ; i++)
{
    // Storing the value of the option
    String sValue = oSelect.getOptions().get(i).getText();
    // Printing the stored value
    System.out.println(sValue);
}
System.out.println("Total No. Items in Dropdown: "+iListSize);
//driver.quit();
}
}

```

10) Run the file from Eclipse IDE:

- OUTPUT:

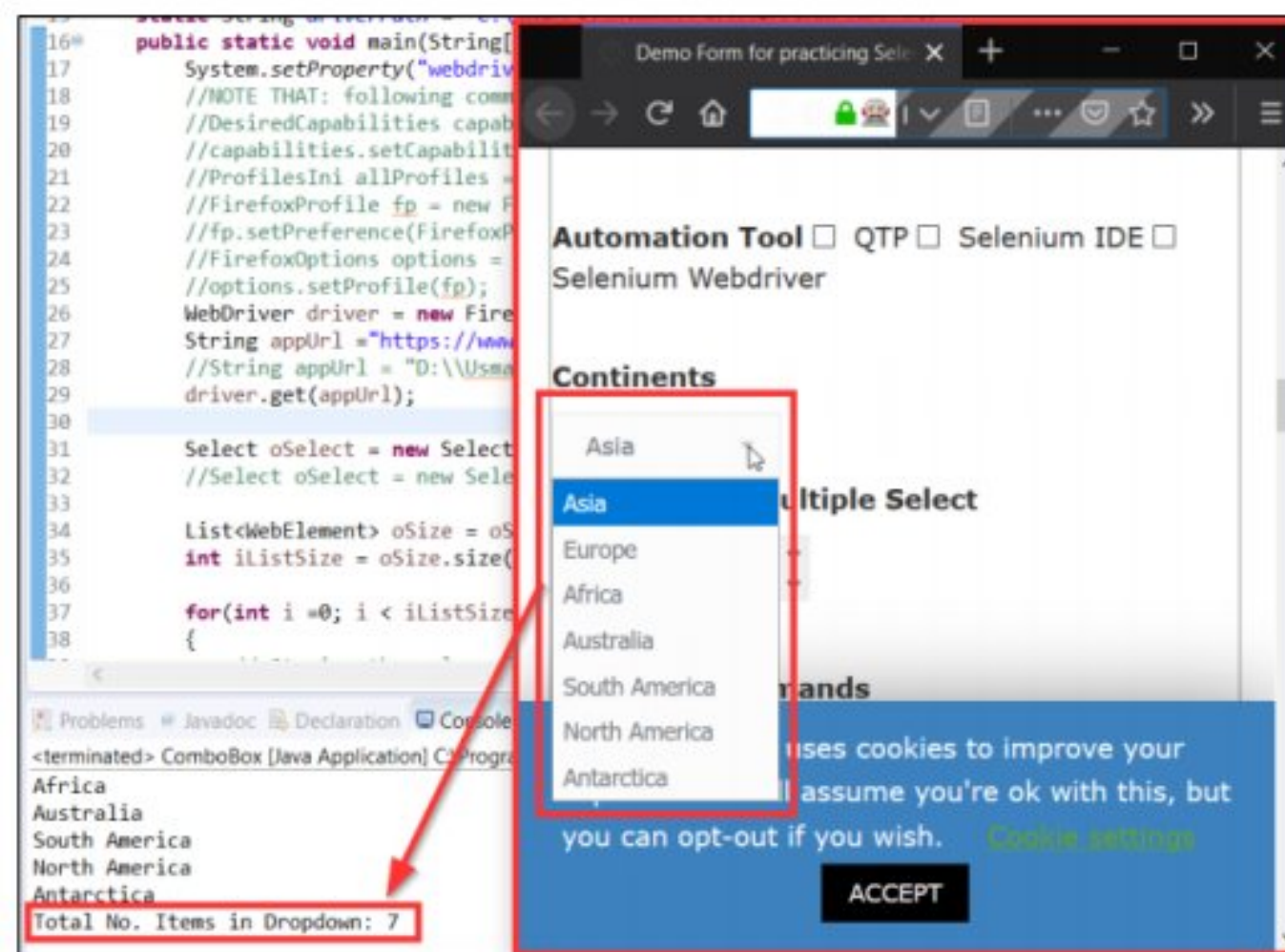


Figure 1: by using the DYNAMIC URL(website)

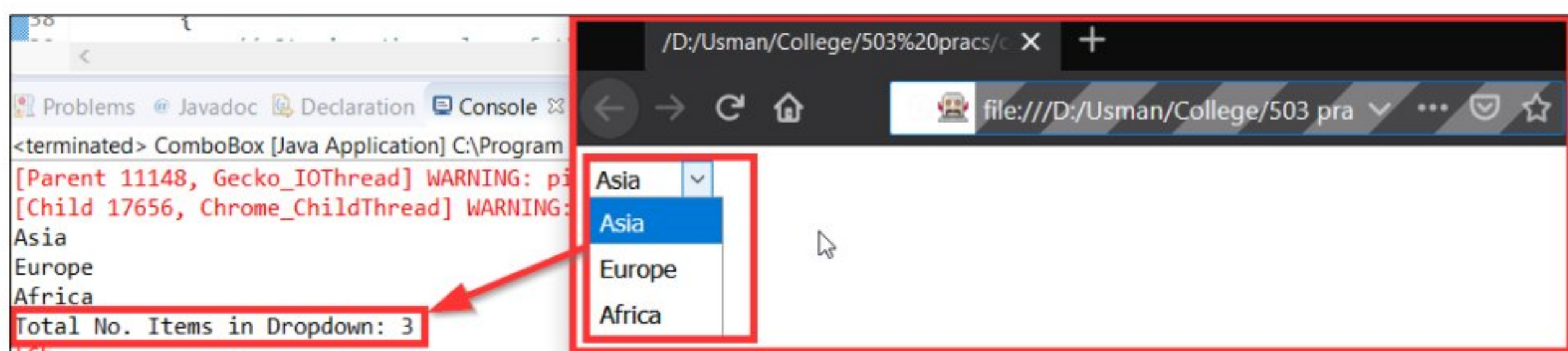


Figure 2: by using the STATIC URL(local file)