

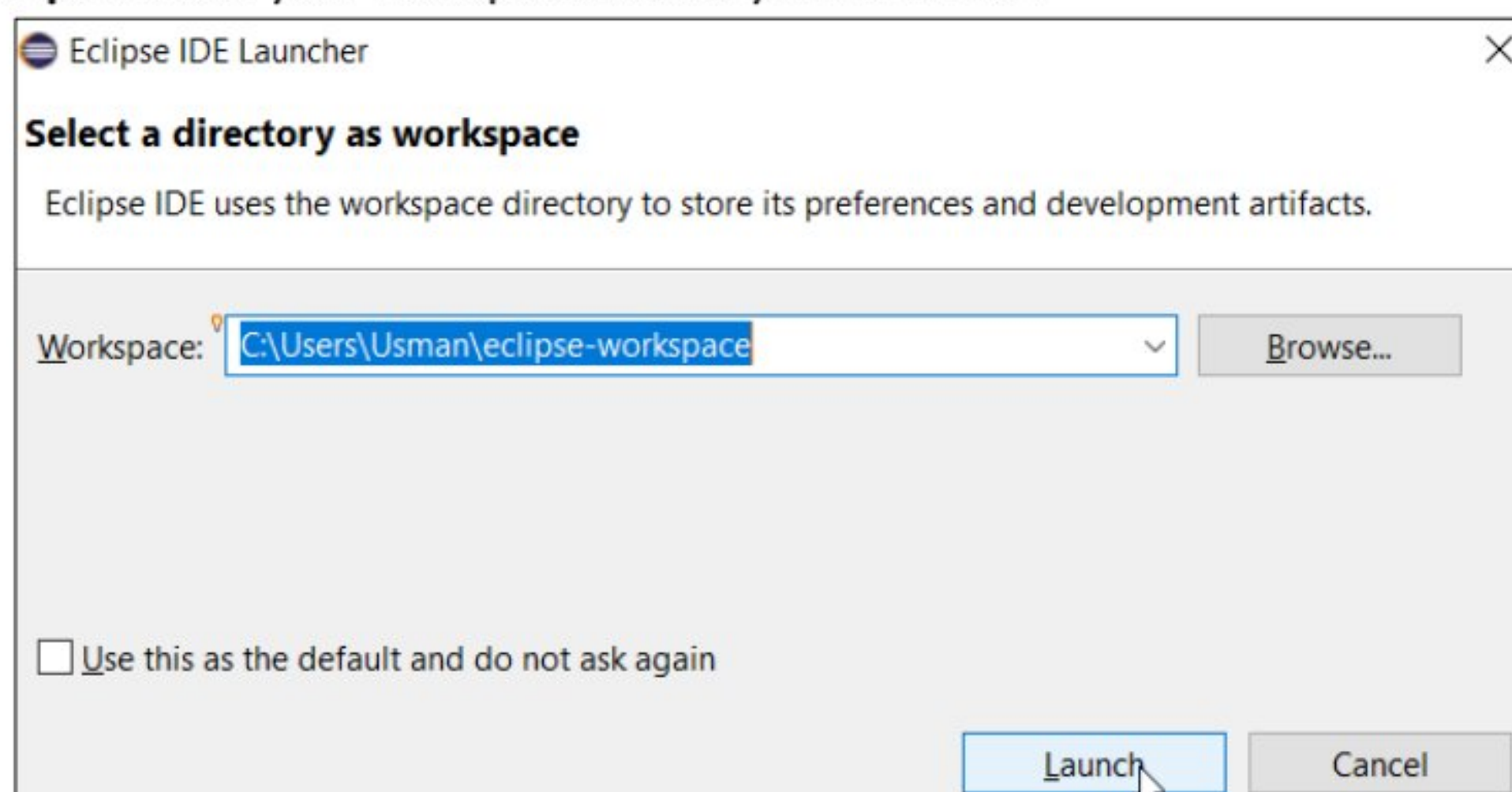
**#AIM: Write and test a program to count the number of check boxes on the page checked and unchecked count.**

**PRE-REQUISITES:**

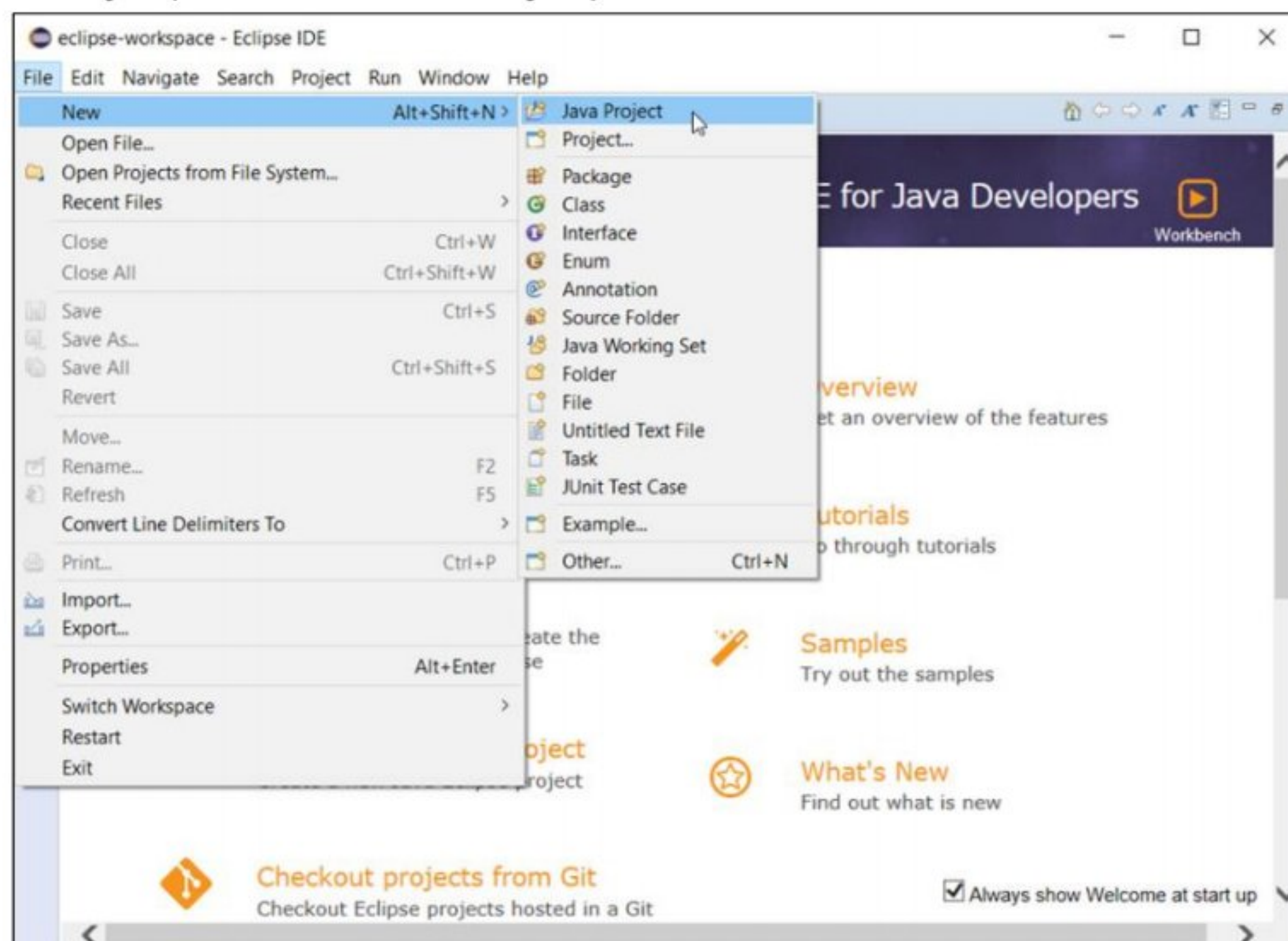
- 1) Check that you have **JDK**.
- 2) Check that you have **Eclipse IDE**.
- 3) Check that you have **Selenium Server Driver and Client Driver(JAR files)**.
- 4) Check that you have **Gecko Driver**.
- 5) Check that you have a stable Internet connection.

**STEPS:**

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

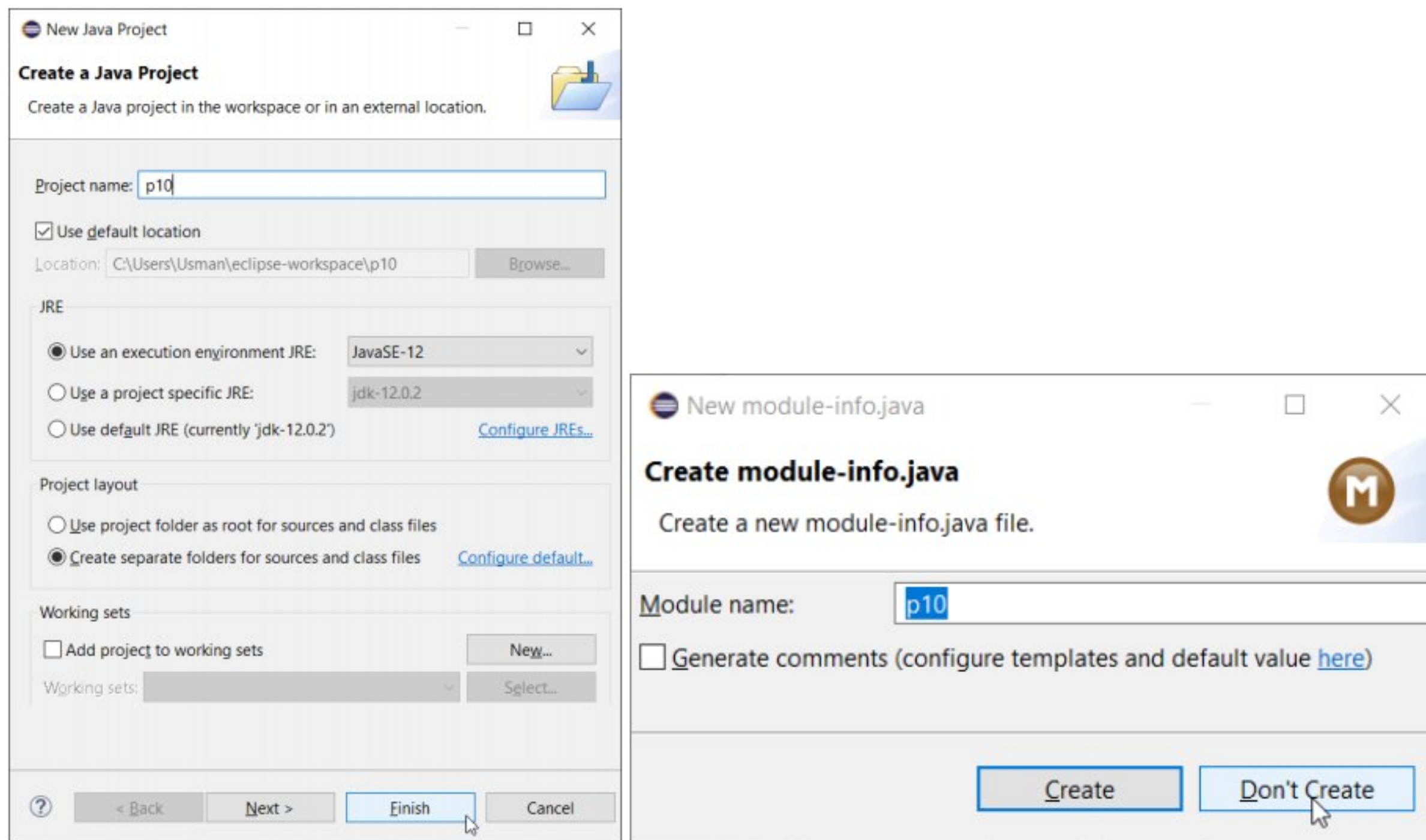


- 2) **Create a Project(File > New > Java Project):**



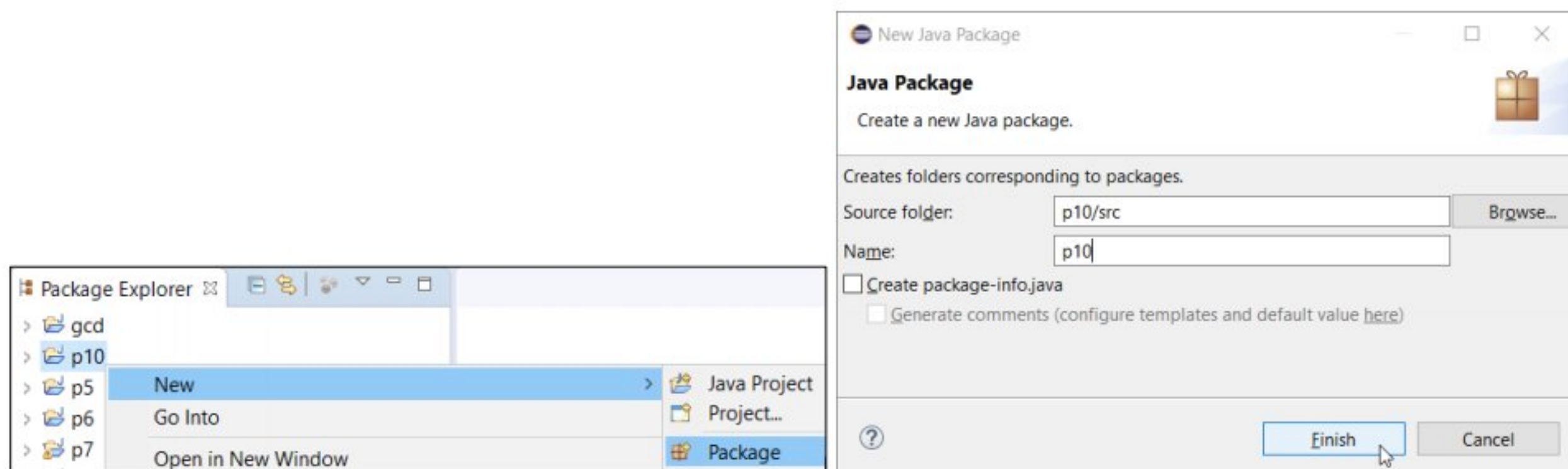


3) Name the project as “p10” > click **Finish** > click **Don’t Create** module:

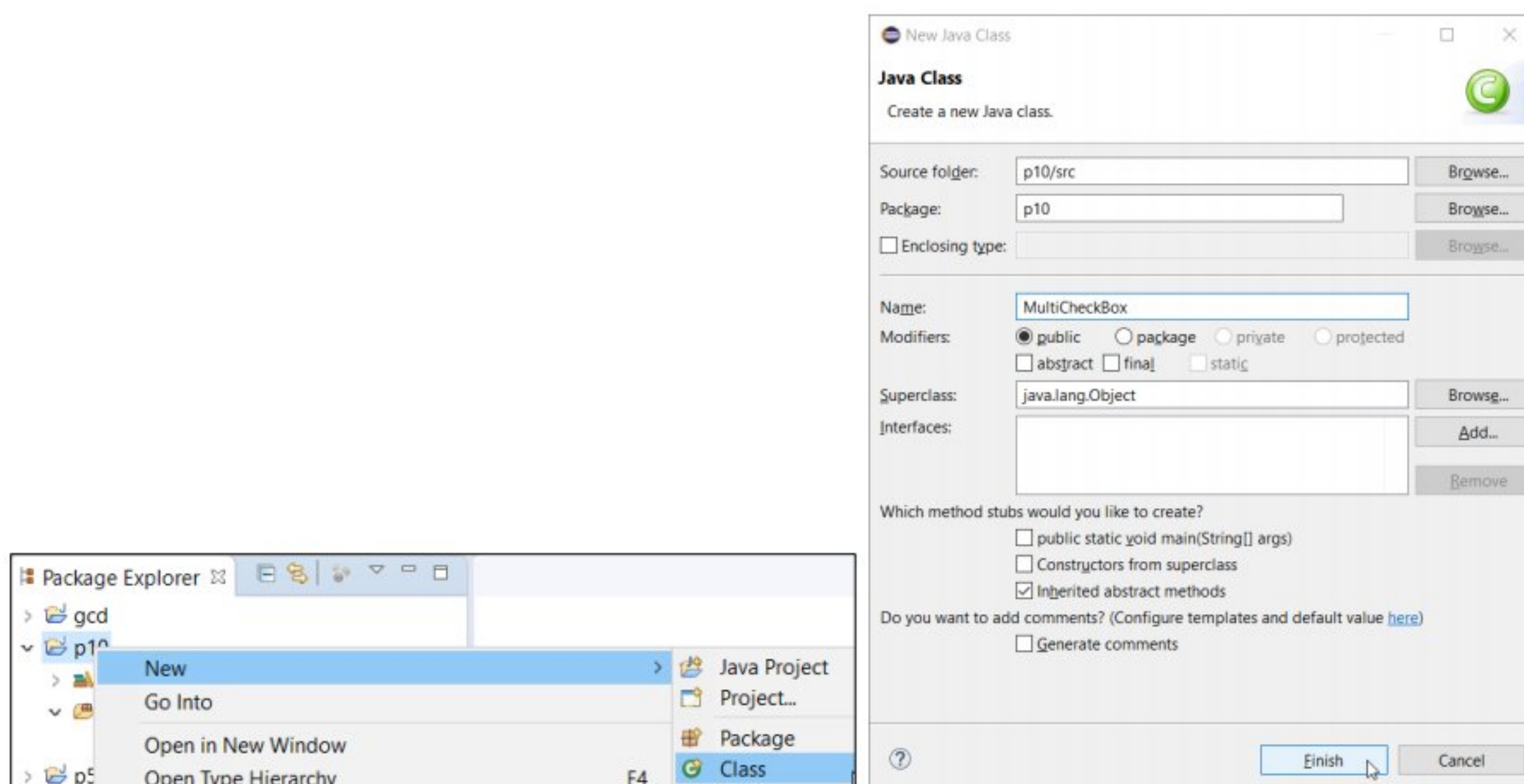


4) Close the “Welcome” tab.

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



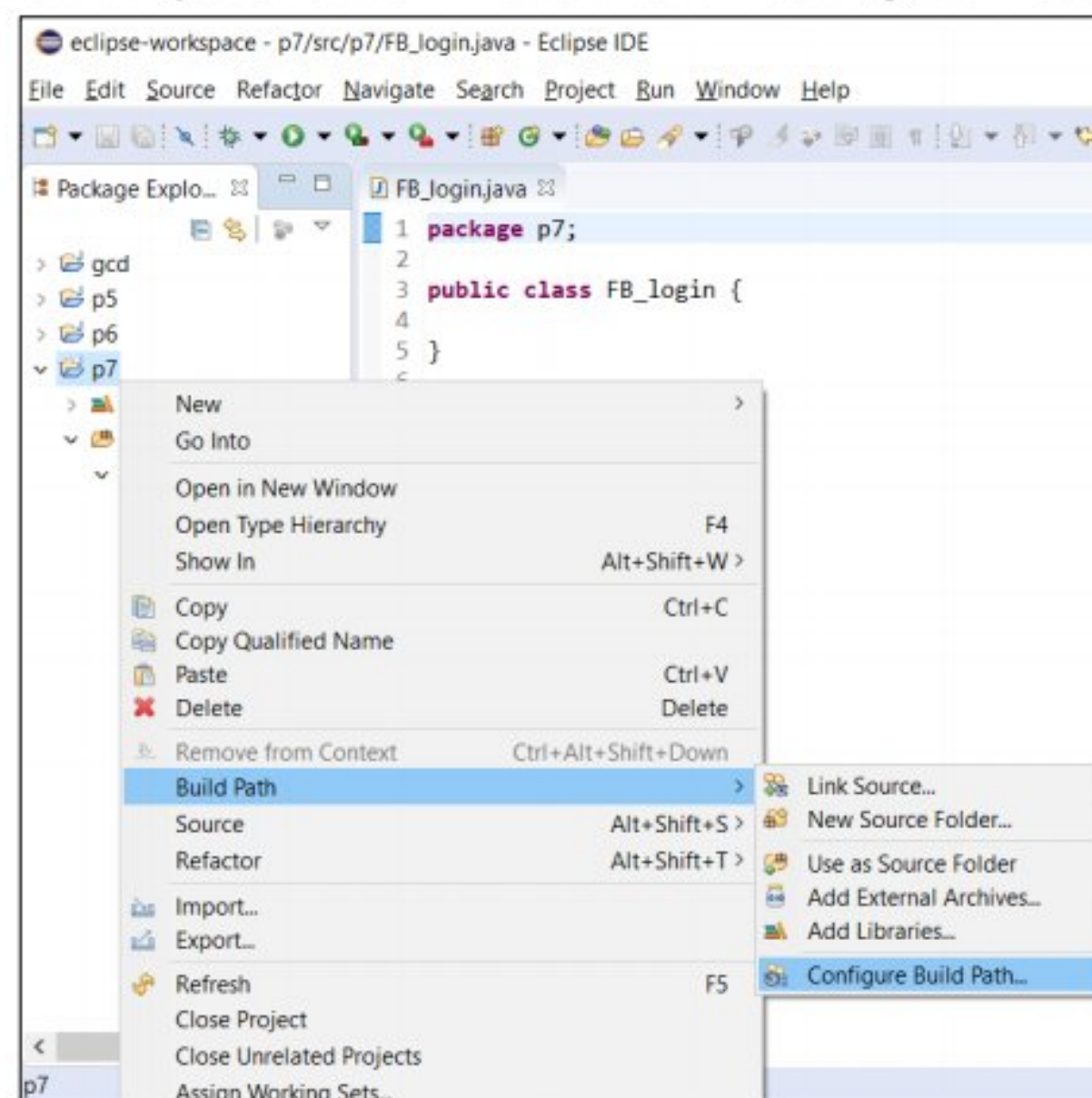
6) Create a Class(right-click on Project Name > New > Class > Name it > Finish):



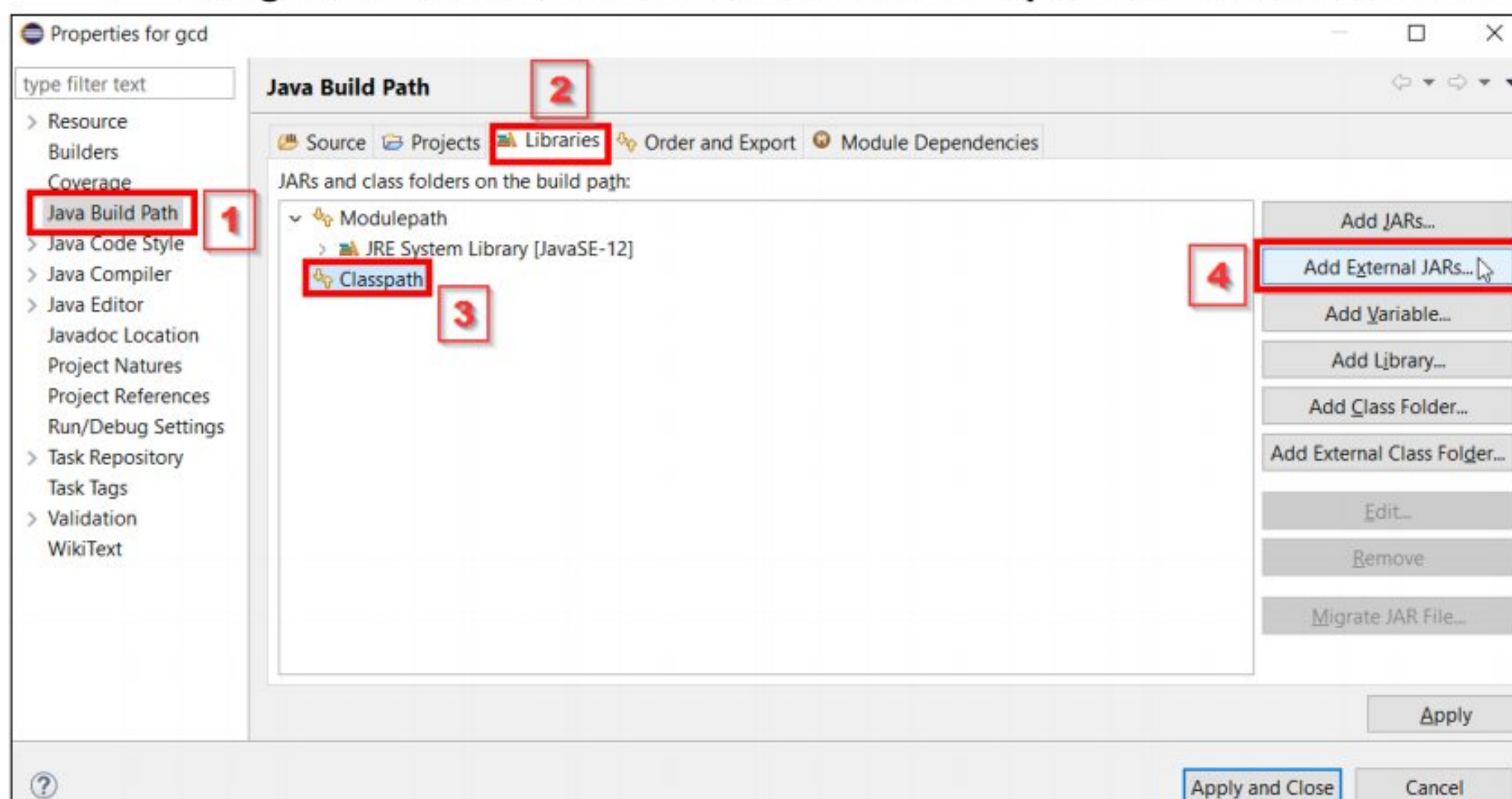


## 7) Adding “Selenium Server Driver and Client Driver(JAR files)” in Eclipse IDE:

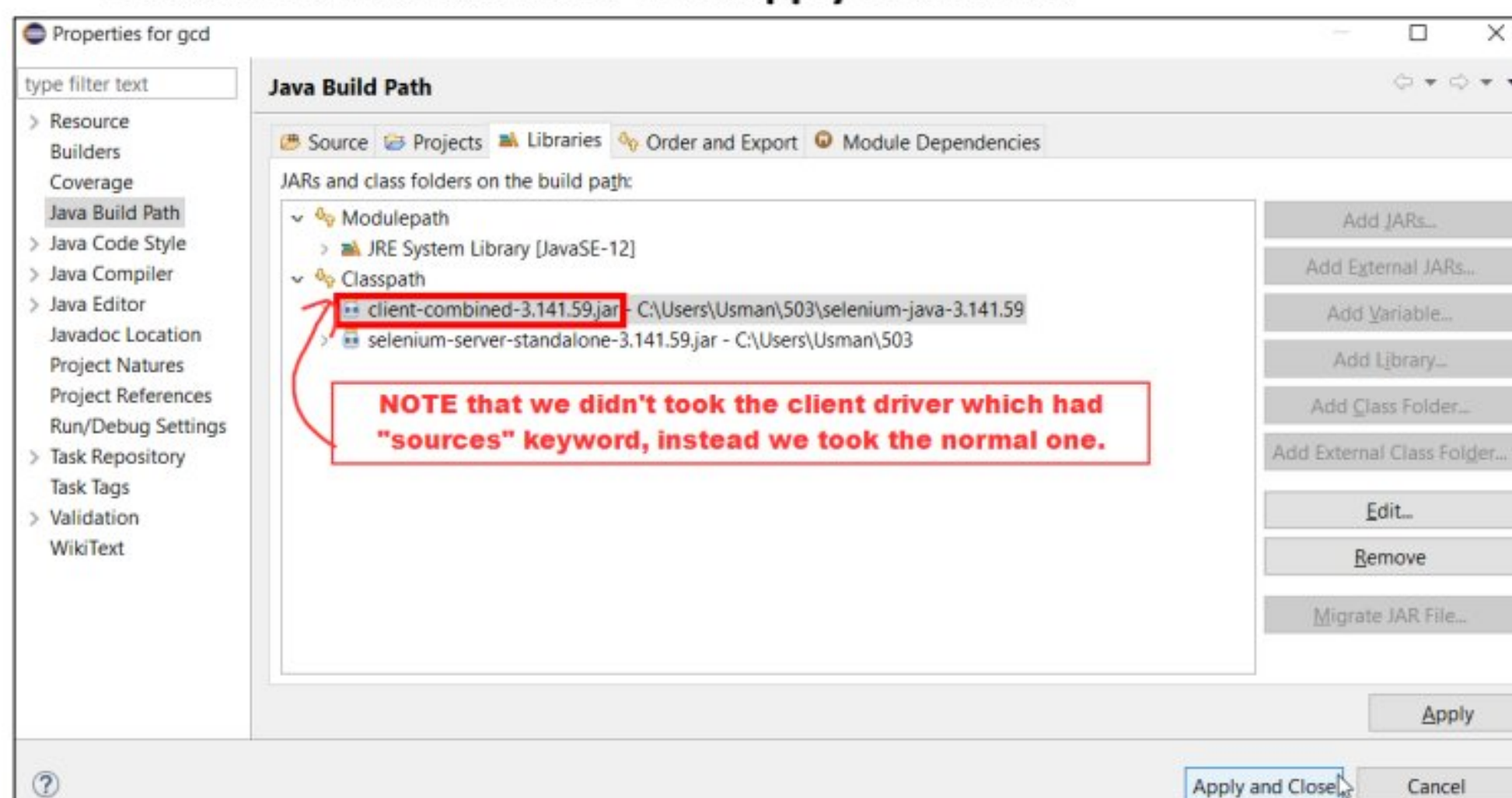
- right-click on Project Name > Build Path > Configure Build Path...



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



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

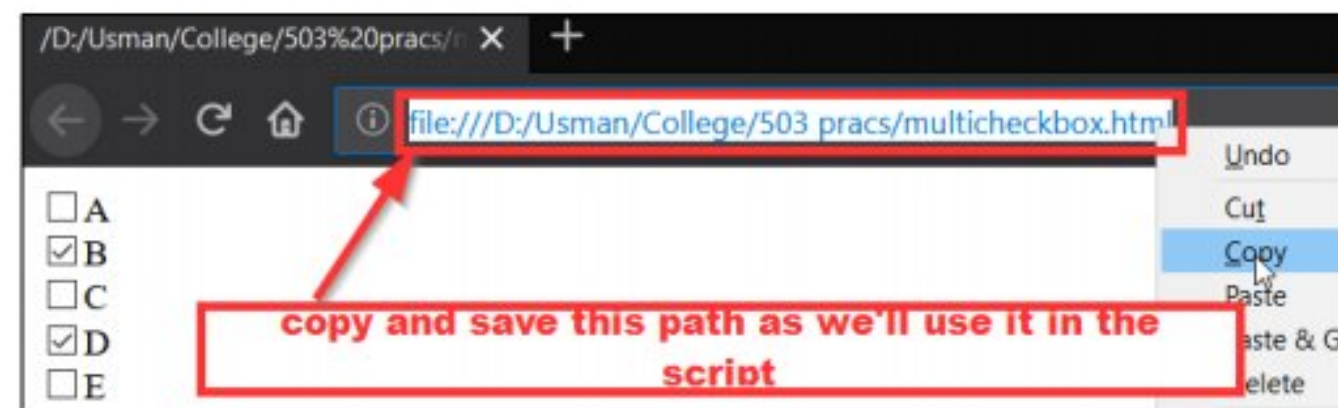




- 8) Create HTML file in a notepad > Save it > Open it in browser > Copy the URL:  
(NOTE THAT: as this is our LOCAL FILE, this file will be opened thru STATIC URL in script)

---(multicheckbox.html)---

```
<input type="checkbox" value="A">A<br>
<input type="checkbox" value="B" CHECKED>B<br>
<input type="checkbox" value="C">C<br>
<input type="checkbox" value="D" CHECKED>D<br>
<input type="checkbox" value="E">E<br>
```



- 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 "xpath" with the help of Selenium Drivers  
-and to show the result.  
-Hence automating the work in browser)
- Now we'll put the path of our LOCAL FILE(multicheckbox.html) in a string
  - Also put the path of "geckodriver" in a String **driverPath**

---(MultiCheckBox.java)---

```
package p10;

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;

public class MultiCheckBox {
    static String driverPath = "C:\\\\Users\\Usman\\503\\geckodriver.exe";
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);
        //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/multicheckbox.html"; //STATIC URL(LOCAL
FILE)

        driver.get(appUrl);

        List<WebElement> checkBoxes =
driver.findElements(By.xpath("//input[@type='checkbox']"));

        int checkedCount=0, uncheckedCount=0;
        for(int i=0; i<checkBoxes.size(); i++){
            System.out.println(i+" checkbox is selected
"+checkBoxes.get(i).isSelected());
            if(checkBoxes.get(i).isSelected()) {checkedCount++;}
            else {uncheckedCount++;}
        }
        //driver.quit();
        System.out.println("No. of selected checkbox: "+checkedCount);
        System.out.println("No. of unselected checkbox: "+uncheckedCount);
    }
}

```

#### 10) Run the file from Eclipse IDE:

- **OUTPUT:**

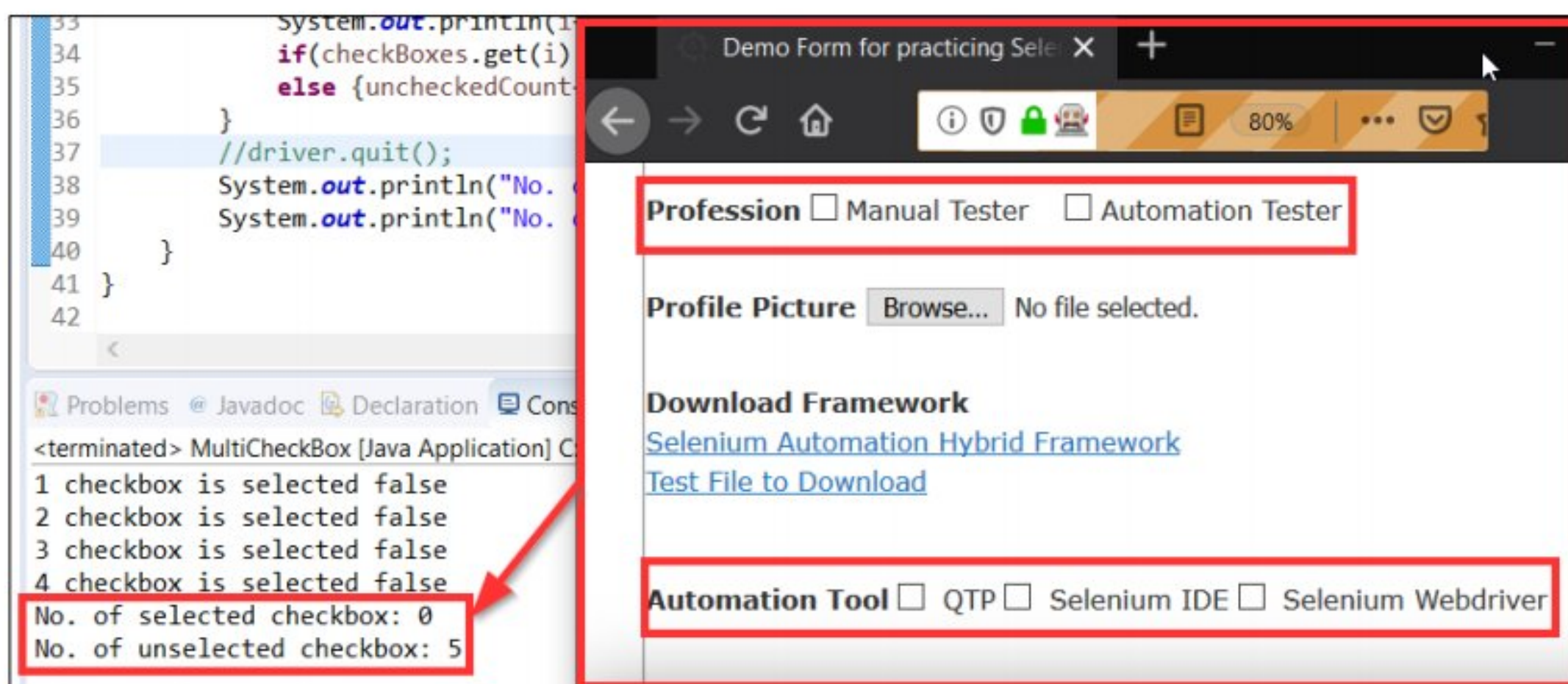


Figure 1: by using the DYNAMIC URL(website)

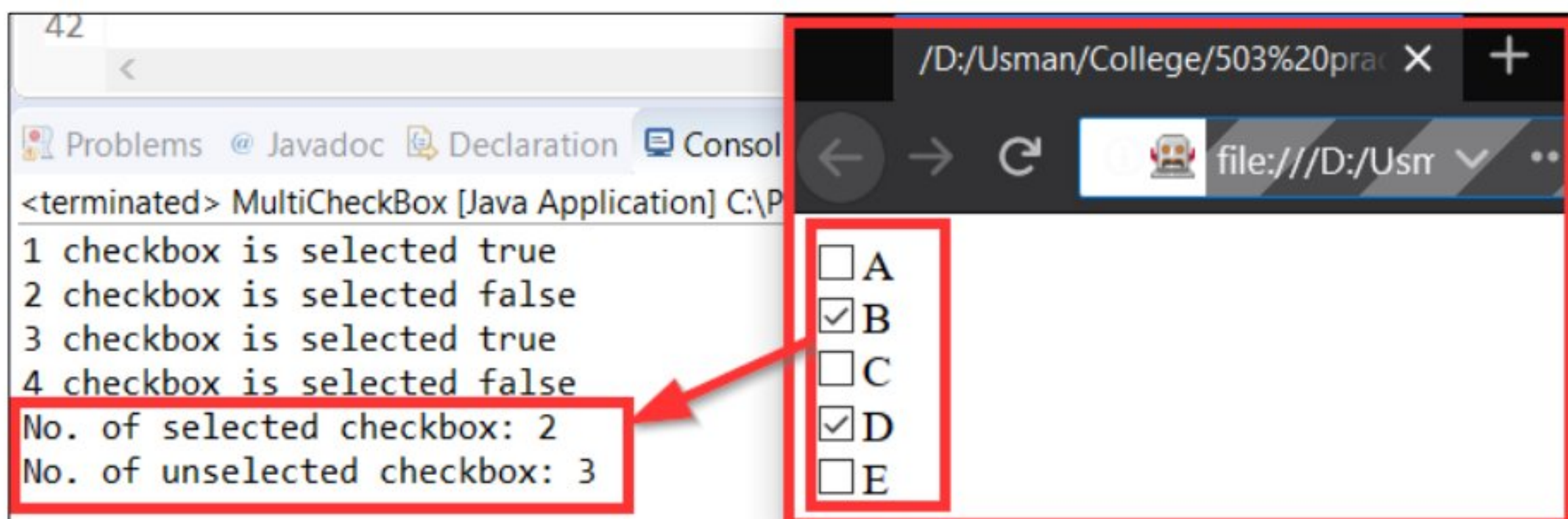


Figure 2: by using the STATIC URL(local file)