

#503(prac8)---14/09/19---

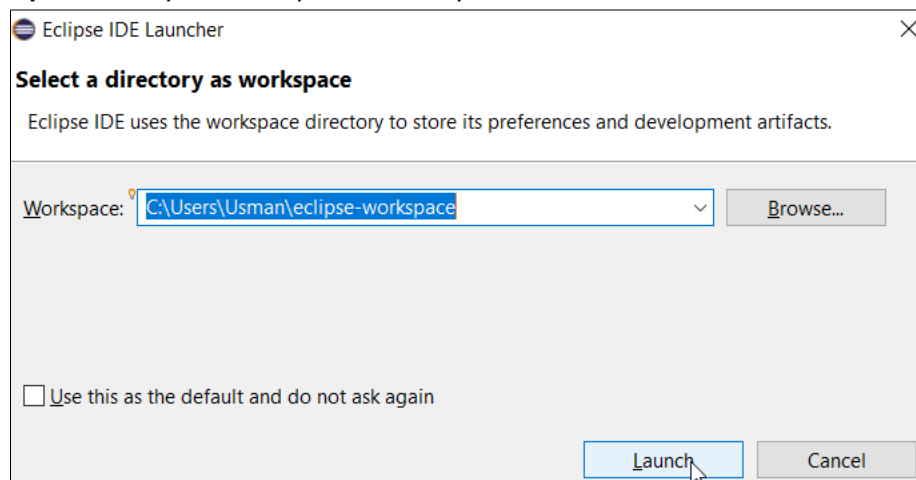
#AIM: Write and test a program to provide total number of objects present/available on webpage.

PRE-REQUISITES:

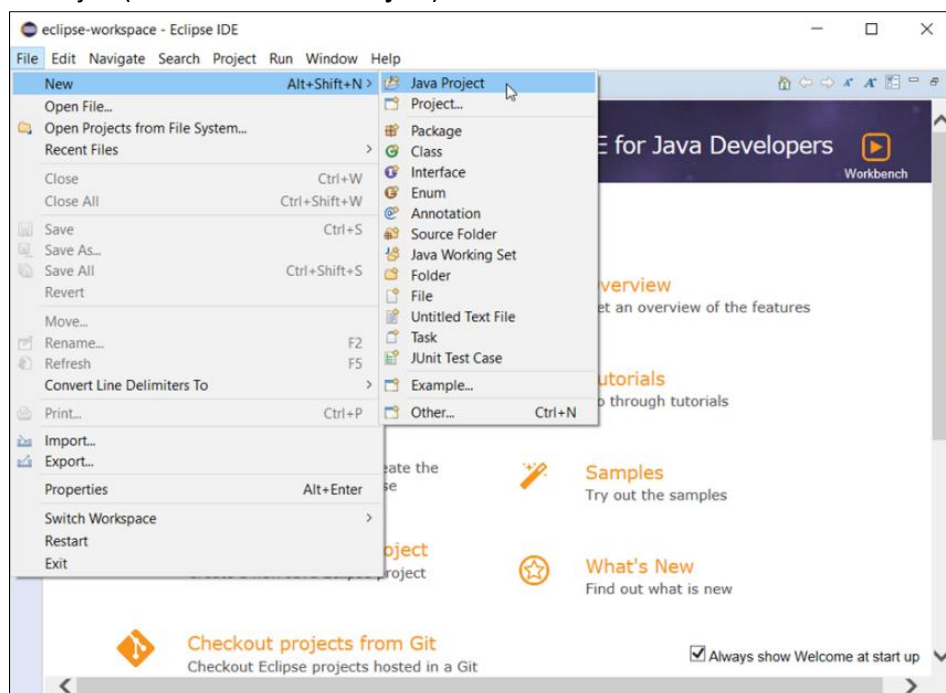
- 1) Check that you have **JDK**.
- 2) Check that you have **Eclipse IDE**.
- 3) Check that you have **Selenium Server Driver and Client Driver(JAR files)**.
- 4) Check that you have **Gecko Driver**.
- 5) Check that you have a stable Internet connection.

STEPS:

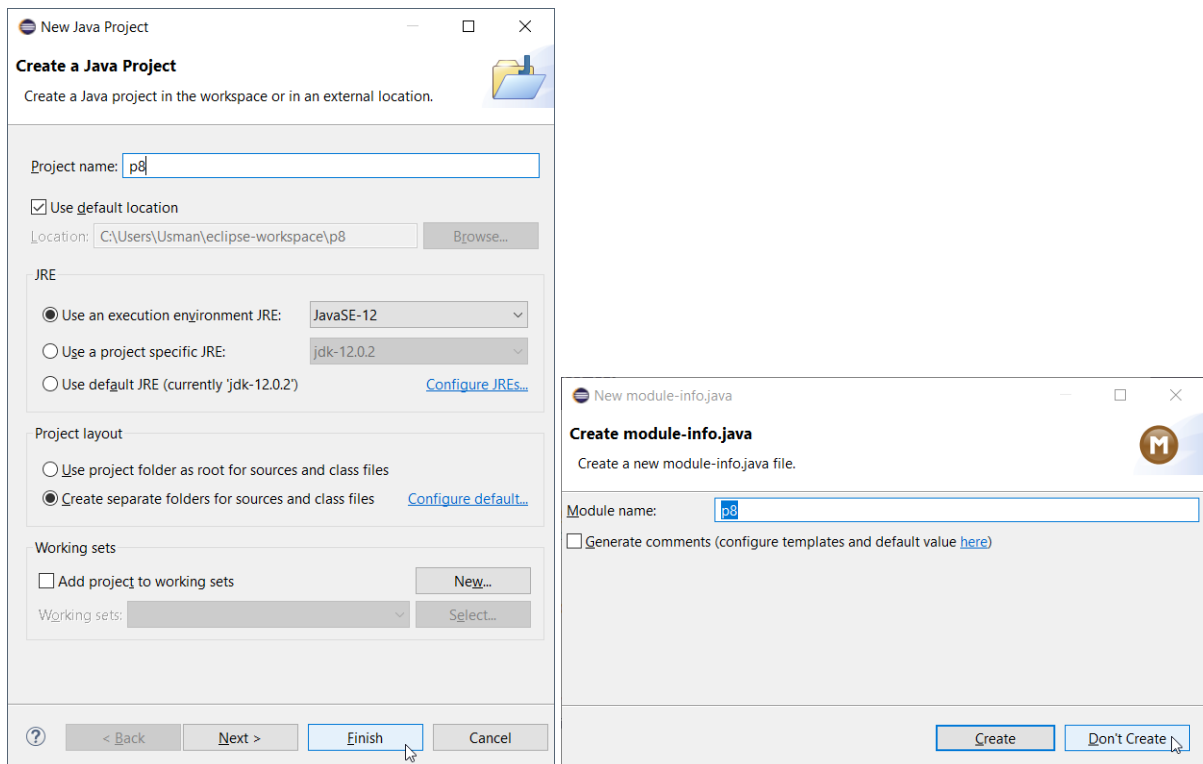
- 1) **Open Eclipse.** Select your workspace directory. Click **Launch**:



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

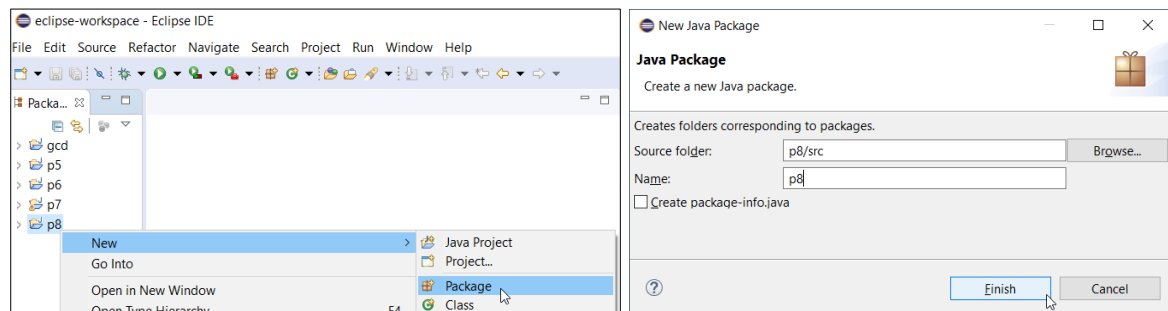


3) Name the project as “p8” > click **Finish** > click **Don't Create** module:

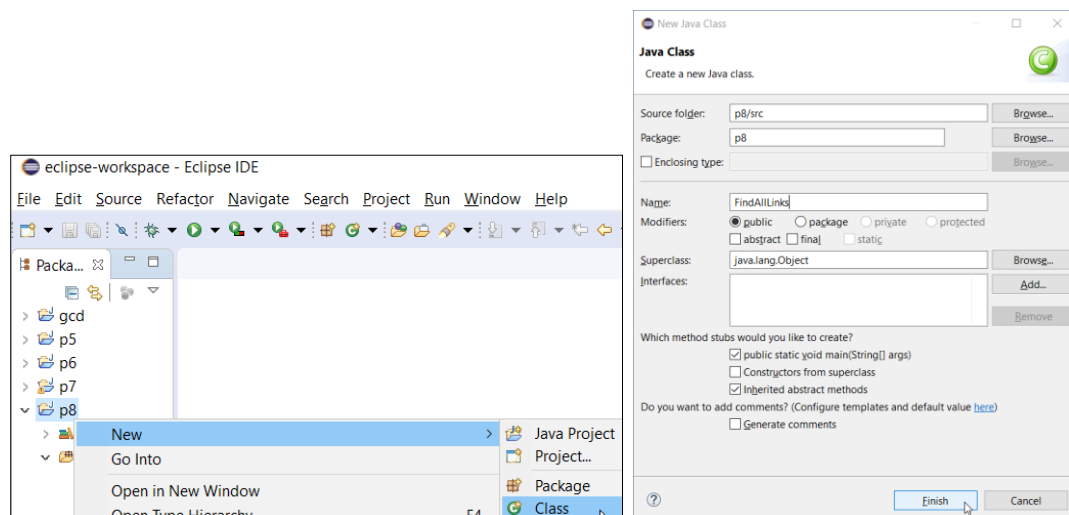


4) Close the “Welcome” tab.

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

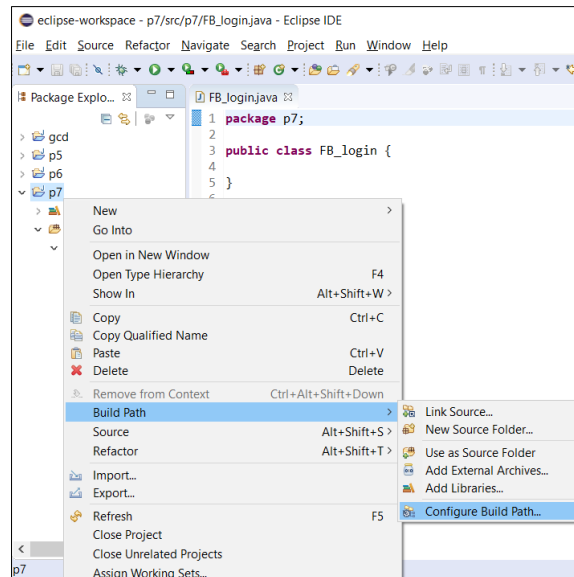


6) Create a Class(right-click on Project Name > New > Class > Name it > Finish):

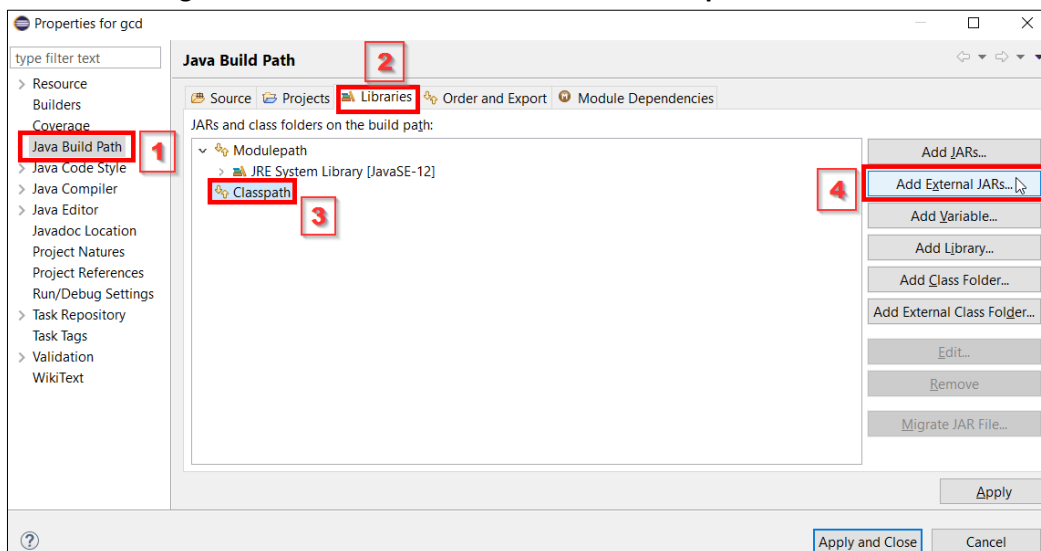


7) Adding “Selenium Server Driver and Client Driver(JAR files)” in Eclipse IDE:

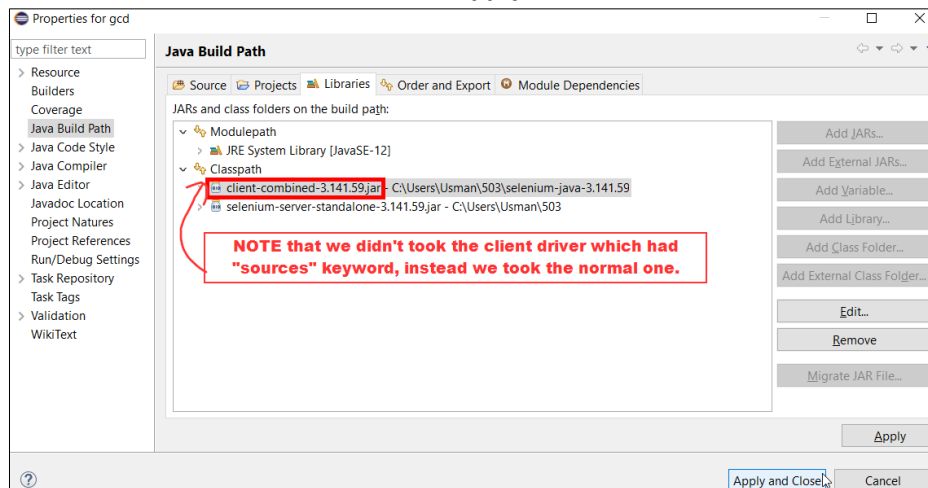
- right-click on Project Name > Build Path > Configure Build Path...



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



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



8) 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 <a> tag WebElements with the help of Selenium Drivers

-and to show the result.

-Hence automating the work in browser)

- Now we'll put the path of "geckodriver" in a String **driverPath**

---(FindAllLinks.java)---

```
package p8;

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 FindAllLinks {
    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.google.co.in/";
        driver.get(appUrl);

        java.util.List<WebElement> links =
driver.findElements(By.tagName("a"));

        for (int i = 1; i < links.size(); i = i + 1)
        {
            System.out.println(links.get(i).getText());
        }
        System.out.println("Total No. of Links: " + links.size());
        //driver.quit();
    }
}
```

9) Run the file from Eclipse IDE: OUTPUT:

