

# **2CSDE80 Software Testing and Quality Assurance**

## **Lab-5 Task**

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**Aim: To study and perform sample tests using the Selenium Testing tool**

### **Methodology:**

#### **1. About selenium:**

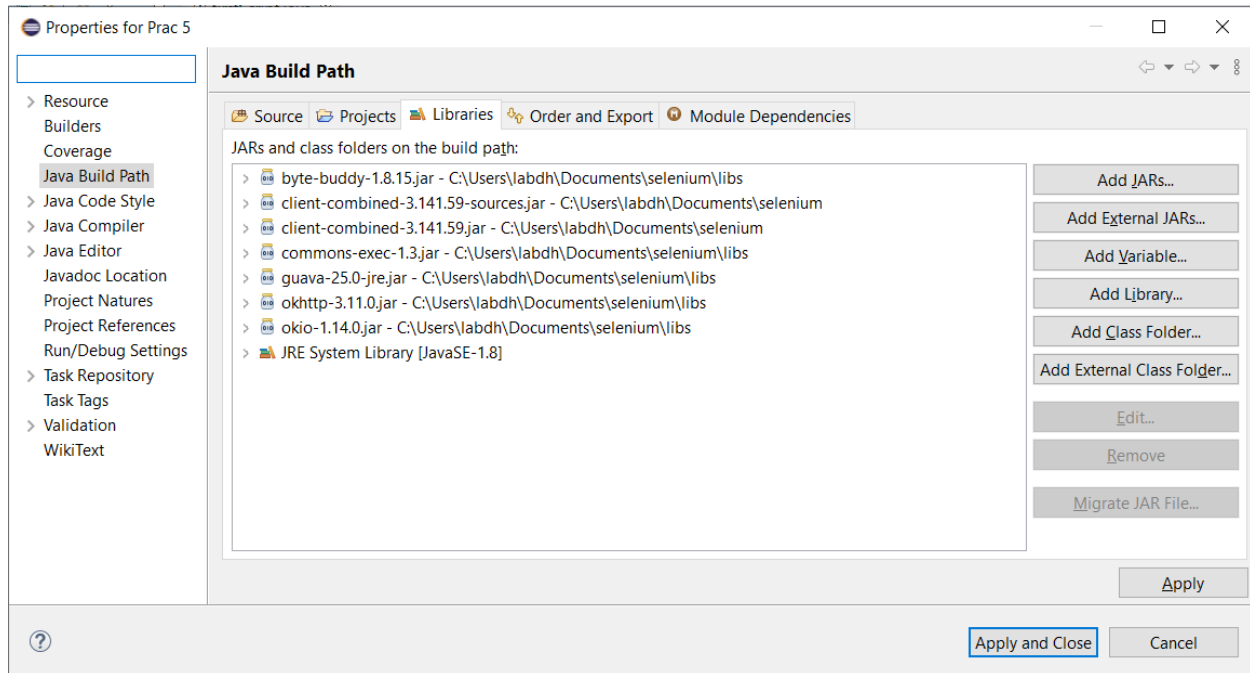
Selenium is a free (open-source) automated testing framework used to validate web applications across different browsers and platforms. You can use multiple programming languages like Java, C#, Python etc to create Selenium Test Scripts. Testing done using the Selenium testing tool is usually referred to as Selenium Testing.



Selenium Software is not just a single tool but a suite of software, each piece catering to different Selenium QA testing needs of an organization.

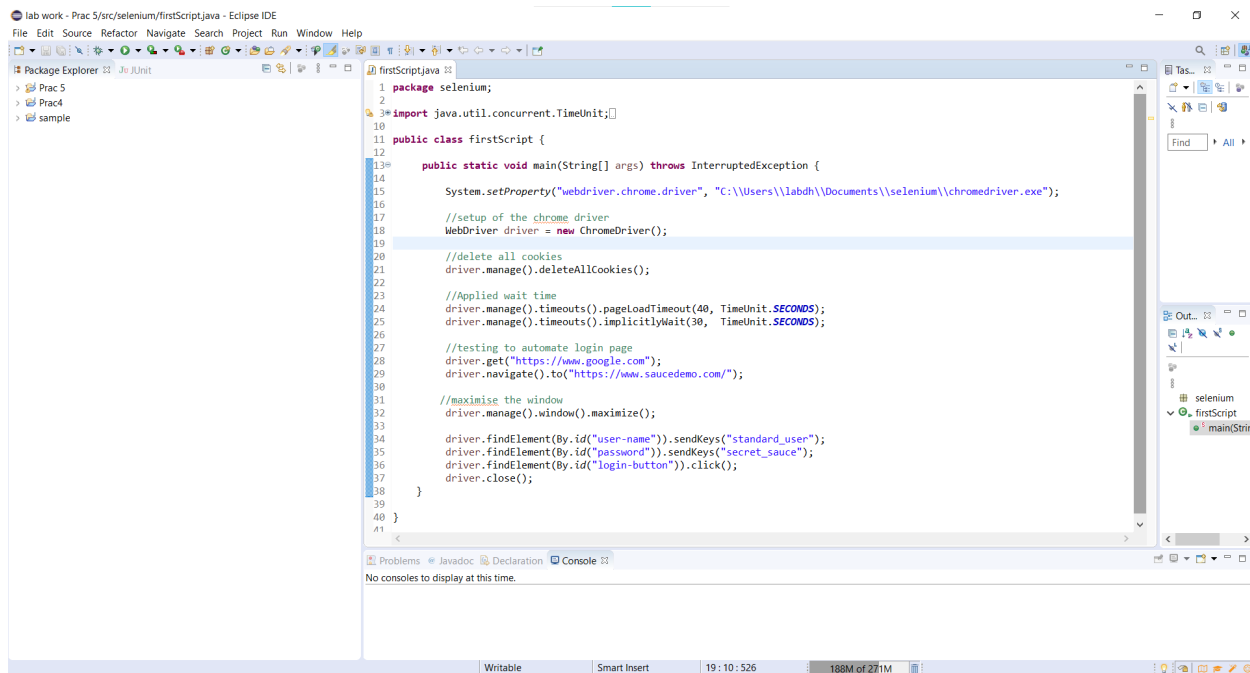
#### **2. Steps of installation**

- Prerequisites: Eclipse, JDK
- Install required jar files from the selenium download page
- Open Eclipse and create a new project.
- Add the jar files in the project by Build path->configure build path->add external JARs



- Make a package and class and start coding

### 3. Code:



This code is performing multiple task of checking the navigation flow and automate testing on login page.

The path of driver is taken as input and then the driver is called. All the cookies are deleted and a timeout is set if the page fails to load.

Thereafter we perform the action of navigating from google to the desired website. After the navigation is done the website is maximized and after that the username and password is entered so as to check if the user can be logged in. all of these tasks are performed by the ID value in the webpage html code.

## **Conclusion:**

This practical demonstrates how to complete a login form and navigate to various pages from the search engine using just a few of the many techniques available in the Selenium toolbox. Eclipse has been used for the same purpose. Selenium is a very versatile tool that makes the testing easy and efficient. The code for writing selenium testing is simple to understand too.