

# Software Engineering Tools Lab

## Assignment No-9

### Module 5- Software testing using tools

PRN: 2020BTECS00079

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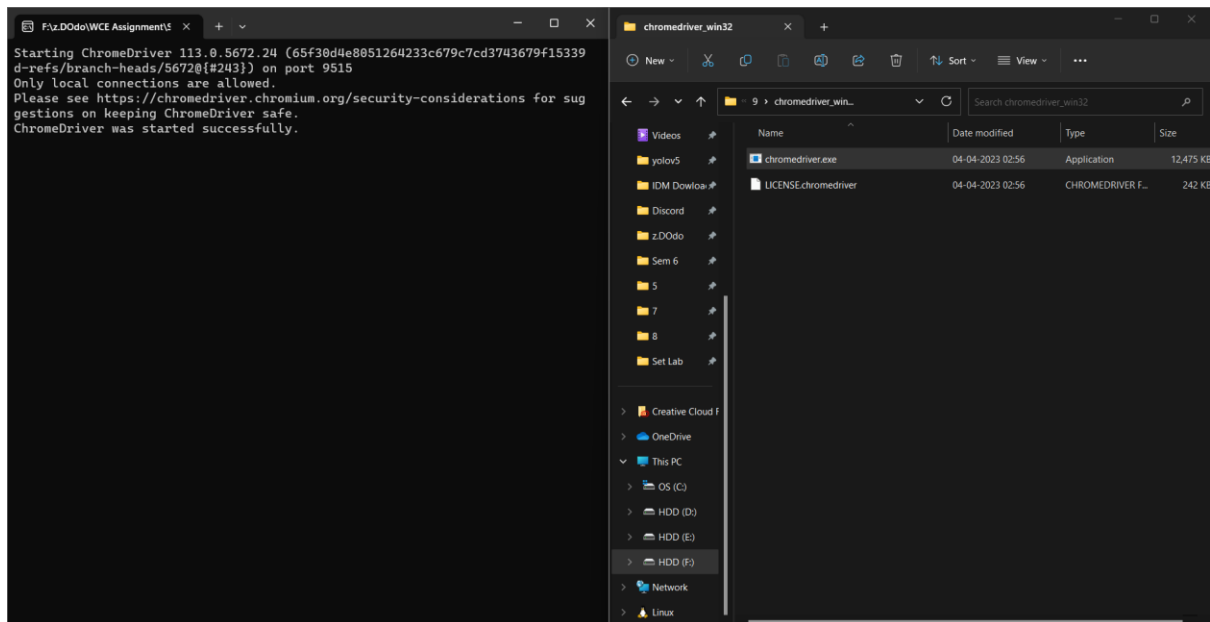
Q 1. What are the prerequisites for installing the Selenium.

1. Java Development Kit (JDK) - Selenium is a Java-based tool, so you need to have JDK installed on your system.
2. Web Browser - Selenium supports different web browsers such as Chrome, Firefox, Safari, etc. You need to have at least one of these browsers installed on your machine.
3. Selenium WebDriver - This is the core component of the Selenium suite. You can download WebDriver from the official Selenium website.

Q 2. Install Selenium tool on your machine (Provide screen shots for successful installation and login)

```
Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

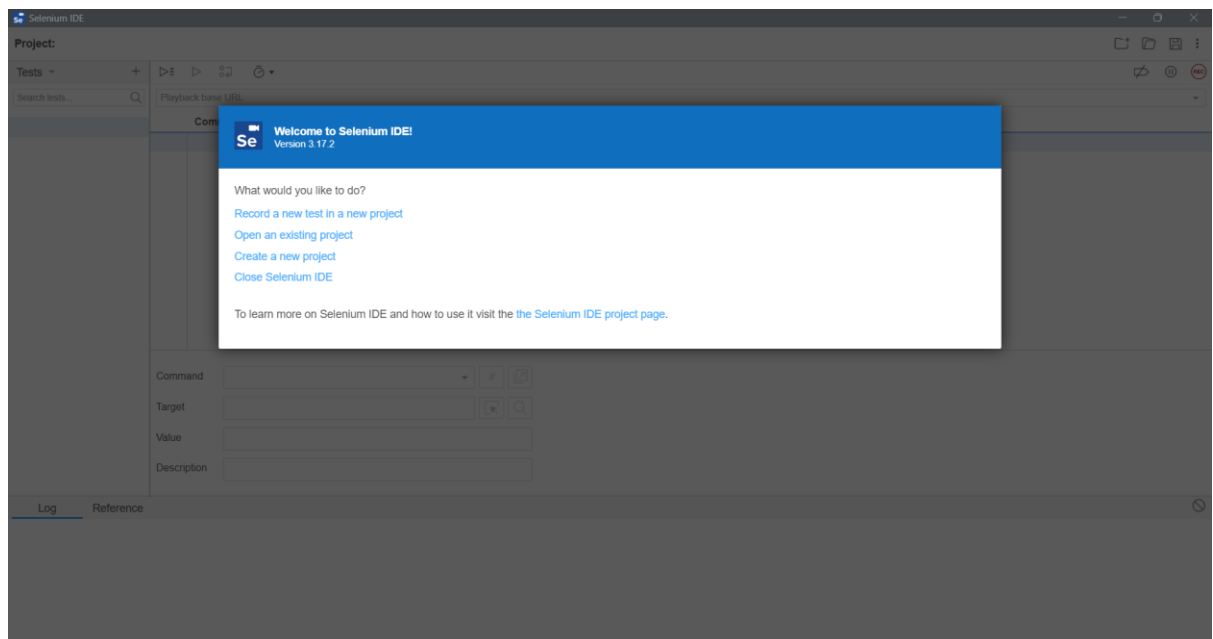
C:\Users\saurab>pip install Selenium
Collecting Selenium
  Downloading selenium-4.9.0-py3-none-any.whl (6.5 MB)
    2.5/4.5 MB 1.1 MB/s eta 0:00:00
Collecting urllib3[socks]>=1.26 (from Selenium)
  Using cached urllib3-1.26.15-py2.py3-none-any.whl (140 kB)
Collecting trio>=0.17 (from Selenium)
  Downloading trio-0.22.0-py3-none-any.whl (384 kB)
    384/384.0 KB 1.1 MB/s eta 0:00:00
Collecting trio-websocket>=0.9 (from Selenium)
  Downloading trio-websocket-0.10.2-py3-none-any.whl (17 kB)
Collecting certifi>=2021.10.8 (from Selenium)
  Using cached certifi-2022.12.7-py3-none-any.whl (155 kB)
Collecting attrs>=19.2.0 (from trio>=0.17->Selenium)
  Downloading attrs-23.1.0-py3-none-any.whl (61 kB)
    61/234.7 KB 800.3 KB/s eta 0:00:00
Collecting sortedcontainers (from trio>=0.17->Selenium)
  Downloading sortedcontainers-2.4.0-py2.py3-none-any.whl (29 kB)
Collecting async-generator>=1.9 (from trio>=0.17->Selenium)
  Downloading async_generator-1.10-py3-none-any.whl (18 kB)
Collecting idna (from trio>=0.17->Selenium)
  Using cached idna-3.4-py3-none-any.whl (61 kB)
Collecting outcome (from trio>=0.17->Selenium)
  Downloading outcome-1.2.0-py2.py3-none-any.whl (9.7 kB)
Collecting sniffio (from trio>=0.17->Selenium)
  Downloading sniffio-1.3.0-py3-none-any.whl (10 kB)
Collecting cffi>=1.14 (from trio>=0.17->Selenium)
  Downloading cffi-1.15.1-cp37-cp37m-win_amd64.whl (179 kB)
    179/3179.3 KB 772.0 KB/s eta 0:00:00
Collecting exceptiongroup>=1.0.0rc9 (from trio>=0.17->Selenium)
  Downloading exceptiongroup-1.1.1-py3-none-any.whl (14 kB)
Collecting wsproto>=0.10 (from trio-websocket>=0.9->Selenium)
  Downloading wsproto-1.2.0-py3-none-any.whl (24 kB)
Collecting PySocks>=1.5.7, <2.0, >=1.5.6 (from urllib3[socks]>=1.26->Selenium)
  Downloading PySocks-1.7.1-py3-none-any.whl (16 kB)
Requirement already satisfied: importlib-metadata in c:\users\saurab\appdata\local\programs\python\python37\lib\site-packages (from attrs>=19.2.0->trio>=0.17->Selenium) (6.5.0)
Using cached pyparser-2.21-py2.py3-none-any.whl (118 kB)
Collecting h11<1, >=0.9.0 (from wsproto>=0.10->trio-websocket>=0.9->Selenium)
  Downloading h11-0.14.0-py3-none-any.whl (58 kB)
    58/350.1 KB 772.5 KB/s eta 0:00:00
Requirement already satisfied: typing-extensions in c:\users\saurab\appdata\local\programs\python\python37\lib\site-packages (from h11<1, >=0.9.0->wsproto>=0.10->trio-websocket>=0.9->Selenium) (4.5.0)
Requirement already satisfied: zipp>=0.5 in c:\users\saurab\appdata\local\programs\python\python37\lib\site-packages (from importlib-metadata->attrs>=19.2.0->trio>=0.17->Selenium) (3.15.0)
Installing collected packages: sortedcontainers, urllib3, sniffio, PySocks, pyparser, idna, h11, exceptiongroup, certifi, async-generator, wsproto, cffi, attrs, outcome, trio, trio-websocket, Selenium
Successfully installed PySocks-1.7.1 Selenium-4.9.0 async-generator-1.10 attrs-23.1.0 certifi-2022.12.7 cffi-1.15.1 exceptiongroup-1.1.1 h11-0.14.0 idna-3.4 outcome-1.2.0 pyparser-2.21 sniffio-1.3.0 sortedcontainers-2.4.0 trio-0.22.0
trio-websocket-0.10.2 urllib3-1.26.15 wsproto-1.2.0
```



Q 3. Using Selenium tool create multiple test cases (at least 10) on any application/project that you have implemented.

Perform below tasks

a. Create New test project as SETProject



b. Create a test plan as SETProjectTestPlan

c. Create a build as SETProjectBuild

d. Create test suite as Test Suite 1 under SETProject

Create Test cases in Selenium Too

Selenium IDE - SETProject\*

Project: SETProject\*

Executing -

http://localhost:8080

✓ Successful login Test Cas

Command	Target	Value
1. ✓ open	/Testlink/login.php	
2. ✓ set window size	790x656	
3. ✓ type	id=login	admin
4. ✓ type	name=tl_password	admin
5. ✓ click	name=login_submit	

Command:

Target:

Value:

Description:

Runs: 1 Failures: 0

Log Reference

Running 'Successful login Test Case'

1. open on /Testlink/login.php OK
2. setWindowSize on 790x656 OK
3. type on id=login with value admin OK
4. type on name=tl\_password with value admin OK
5. click on name=login\_submit OK

'Successful login Test Case' completed successfully

TestLink

localhost:8080/Testlink/login.php

TESTLINK 1.9 (PRAGUE)

There is still a valid login for your browser. Please use this link >>> Logout <<< at first if you would like to renew your session.

Login Name:

Password:

Login

New User? [Lost Password?](#)

11:43:39

11:43:39

11:43:39

11:43:39

11:43:40

11:43:40

Selenium IDE - SETProject\*

Project: SETProject\*

Tests -

Search tests...

http://localhost:8080

✓ Login Fail\*

✓ Successful login Test Cas

Command	Target	Value
3. ✓ type	id=login	admin
4. ✓ type	name=tl_password	admin
5. ✓ click	css=label:nth-child(5)	
6. ✓ click	name=tl_password	
7. ✓ type	name=tl_password	adminadmin
8. ✓ click	name=login_submit	
9. ✓ type	id=login	admin
10. ✓ type	name=tl_password	admin

Command:

Target:

Value:

Description:

Log Reference

Running 'Successful login Test Case'

1. open on /Testlink/login.php OK
2. setWindowSize on 790x656 OK
3. type on id=login with value admin OK
4. type on name=tl\_password with value admin OK
5. click on name=login\_submit OK

'Successful login Test Case' completed successfully

11:45:26

11:45:26

11:45:26

11:45:26

11:45:27

11:45:27

Selenium IDE - SETProject\*

Project: SETProject\*

Tests +

Search tests...

http://localhost:8080/Testlink/login.php

✓ Empty Username and Password

✓ Incorrect Username\*

✓ Login Fail\*

✓ Successful login Test Case

	Command	Target	Value
1	✓ open	http://localhost:8080/Testlink/login.php	
2	✓ set window size	790x556	
3	✓ type	id=login	admin
4	✓ type	name=tl_password	admin
5	✓ type	id=login	
6	✓ click	name=tl_password	
7	✓ type	name=tl_password	
8	✓ click	name=login_submit	
9	✓ type	id=login	admin
10	✓ type	name=tl_password	admin

Command

Target

Value

Description

Log

Reference

5. type on id=login OK

6. click on name=tl\_password OK

7. type on name=tl\_password OK

8. click on name=login\_submit OK

9. type on id=login with value admin OK

10. type on name=tl\_password with value admin OK

'Empty Username and Password' completed successfully

11:56:01

11:56:01

11:56:02

11:56:02

11:56:02

11:56:02

11:56:02

Selenium IDE - SETProject\*

Project: SETProject\*

Tests +

Search tests...

http://localhost:8080/Testlink/login.php

✓ Empty Username and Password

✓ Login Fail\*

✓ Successful login Test Case

	Command	Target	Value
1	✓ open	http://localhost:8080/Testlink/login.php	
2	✓ set window size	790x556	
3	✓ type	id=login	admin
4	✓ type	name=tl_password	admin
5	✓ type	id=login	
6	✓ click	name=tl_password	
7	✓ type	name=tl_password	
8	✓ click	name=login_submit	
9	✓ type	id=login	admin
10	✓ type	name=tl_password	admin

Command

Target

Value

Description

Log

Reference

Running 'Successful login Test Case'

1. open on /Testlink/login.php OK

2. setWindowSize on 790x556 OK

3. type on id=login with value admin OK

4. type on name=tl\_password with value admin OK

5. click on name=login\_submit OK

'Successful login Test Case' completed successfully

11:47:25

11:47:26

11:47:26

11:47:26

11:47:26

11:47:26

11:47:27