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Prn: 2020BTECS00069

TY CSE

ASSIGNMENT 9

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

➔ Before installing Selenium, you will need to make sure that your system meets the following prerequisites:

1. **Programming language:** Selenium supports a variety of programming languages such as Java, Python, Ruby, C#, and JavaScript. You should have basic knowledge of at least one of these programming languages.
2. **Web Browser:** Selenium works with a variety of web browsers such as Google Chrome, Mozilla Firefox, Microsoft Edge, and Safari. You will need to have one or more of these web browsers installed on your system.
3. **Webdriver:** Webdriver is a component of Selenium that allows it to interact with the web browser. You will need to download the appropriate webdriver for the web browser you plan to use. For example, if you plan to use Chrome, you will need to download the Chrome webdriver.
4. **Integrated Development Environment (IDE):** An IDE is a software application that provides a comprehensive environment for developing code. Although not strictly necessary, an IDE such as Eclipse, PyCharm, or Visual Studio Code can make the development process easier and more efficient.
5. **Selenium Library:** You will need to install the Selenium library for your chosen programming language. This can usually be done using a package manager such as pip for Python or Maven for Java.

Once you have met these prerequisites, you should be ready to install and use Selenium.

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

```
Command Prompt

C:\Users\Yashraj Patil>python --version
Python 3.11.3

C:\Users\Yashraj Patil>python -m pip install selenium
Collecting selenium
  Downloading selenium-4.8.3-py3-none-any.whl (6.5 MB)
----- 6.5/6.5 MB 4.8 MB/s eta 0:00:00
Requirement already satisfied: urllib3[socks]>=1.26 in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from selenium) (1.26.15)
Collecting trio<=0.17 (from selenium)
  Downloading trio-0.22.0-py3-none-any.whl (384 kB)
----- 384.9/384.9 kB 5.9 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)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from selenium) (2022.12.7)
Requirement already satisfied: attrs>=19.2.0 in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from trio<=0.17->selenium) (23.1.0)
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)
Requirement already satisfied: idna in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from trio<=0.17->selenium) (2.10)
Collecting outcome (from trio<=0.17->selenium)
  Downloading outcome-1.2.0-py2.py3-none-any.whl (9.7 kB)
Requirement already satisfied: sniffio in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from trio<=0.17->selenium) (1.3.0)
```

```
Command Prompt

packages (from trio<=0.17->selenium) (23.1.0)
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Requirement already satisfied: sniffio in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from trio<=0.17->selenium) (1.3.0)
Collecting cffi>=1.14 (from trio<=0.17->selenium)
  Downloading cffi-1.15.1-cp311-cp311-win_amd64.whl (179 kB)
----- 179.0/179.0 kB 5.4 MB/s eta 0:00:00
Collecting exceptiongroup (from trio-websocket<=0.9->selenium)
  Downloading exceptiongroup-1.1.1-py3-none-any.whl (14 kB)
Collecting wsproto>=0.14 (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)
Collecting pycparser (from cffi>=1.14->trio<=0.17->selenium)
  Using cached pycparser-2.21-py2.py3-none-any.whl (118 kB)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\yashraj patil\appdata\local\programs\python\python311\lib\site-packages (from wsproto>=0.14->trio-websocket<=0.9->selenium) (0.9.0)
Installing collected packages: sortedcontainers, wsproto, PySocks, pycparser, outcome, exceptiongroup, async-generator, cffi, trio, trio-websocket, selenium
Successfully installed PySocks-1.7.1 async-generator-1.10 cffi-1.15.1 exceptiongroup-1.1.1 outcome-1.2.0 pycparser-2.21 selenium-4.8.3 sortedcontainers-2.4.0 trio-0.22.0 trio-websocket-0.10.2 wsproto-1.2.0

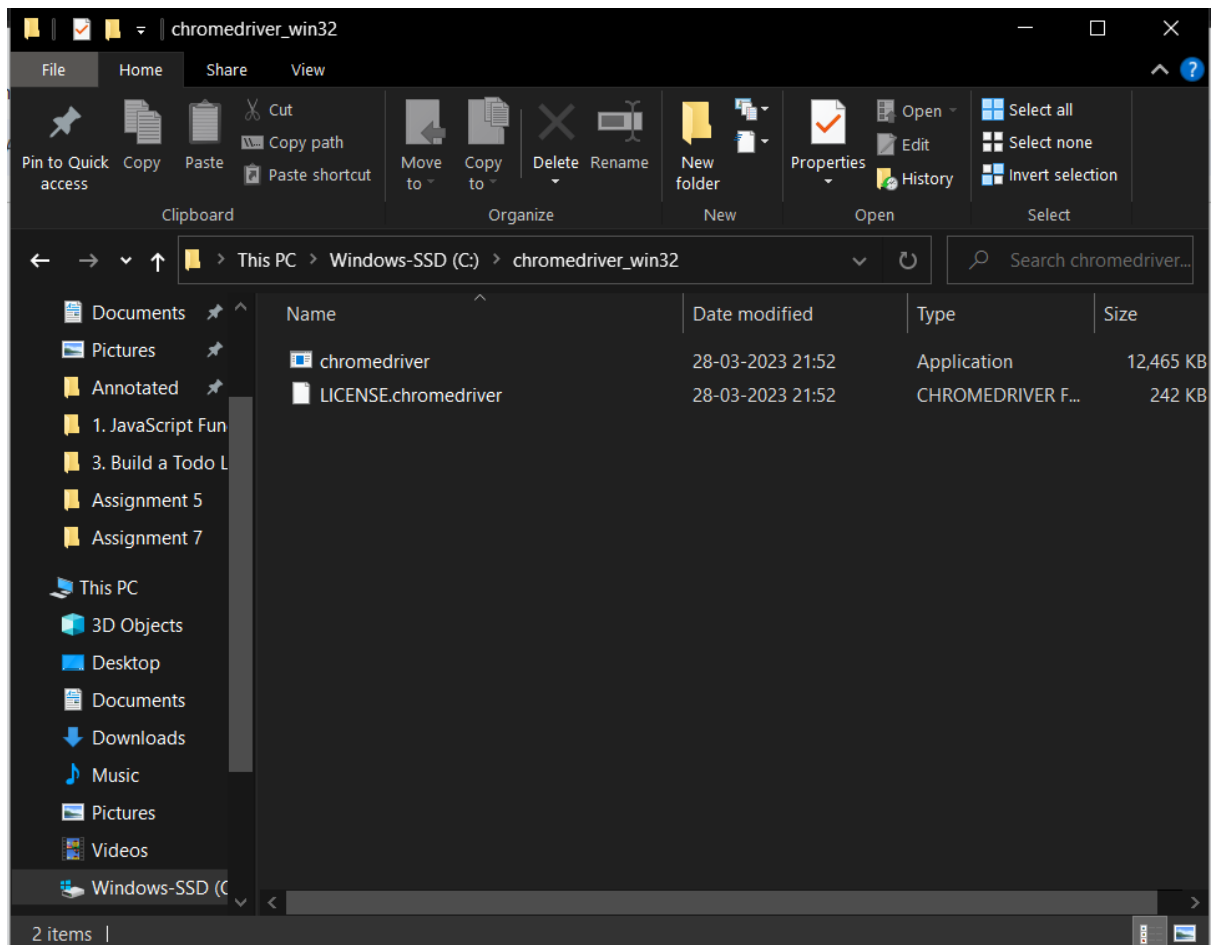
C:\Users\Yashraj Patil>
```

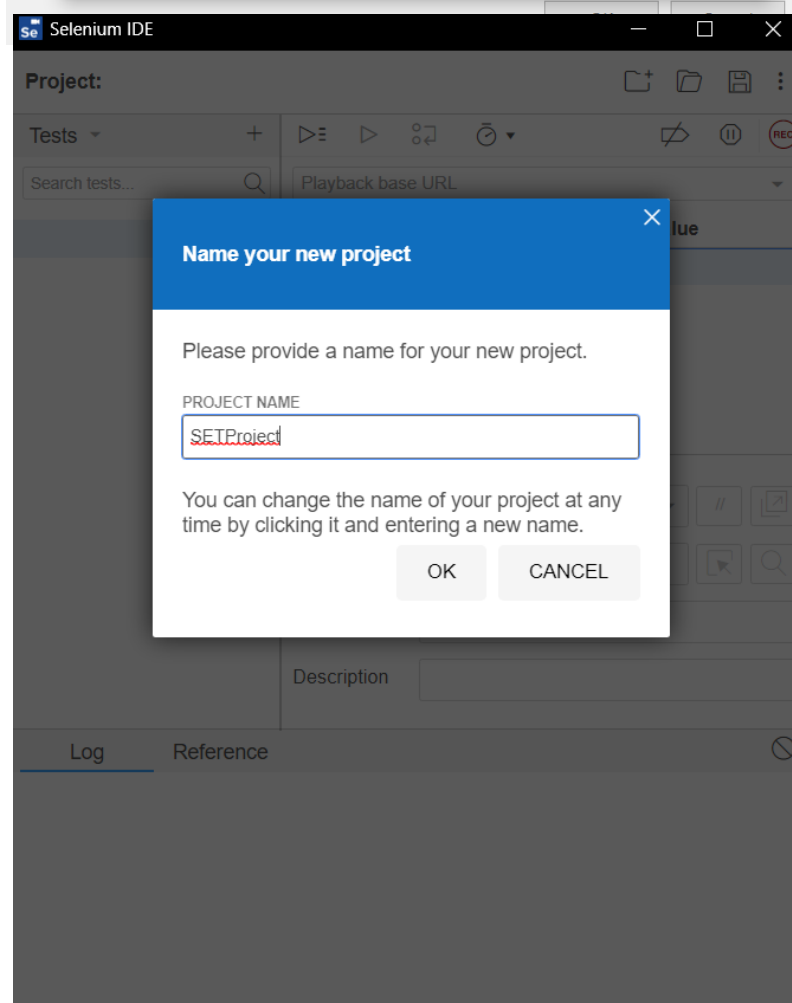
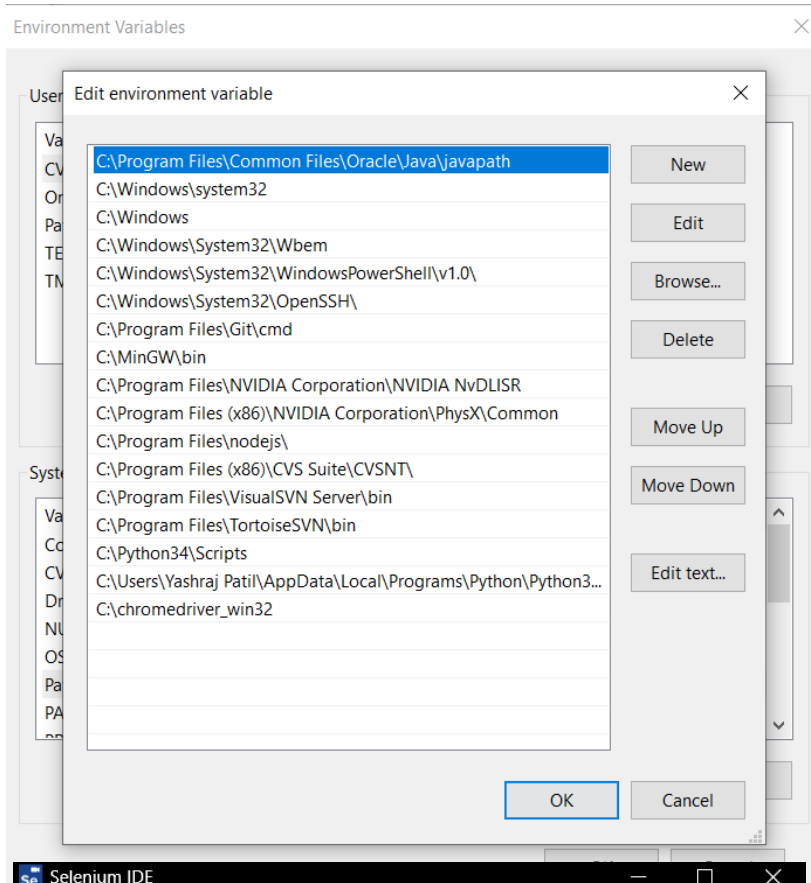
```
Command Prompt

Downloading cffi-1.15.1-cp311-cp311-win_amd64.whl (179 kB)
----- 179.0/179.0 kB 5.4 MB/s eta 0:00:00
Collecting exceptiongroup (from trio-websocket~=0.9->selenium)
  Downloading exceptiongroup-1.1.1-py3-none-any.whl (14 kB)
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  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)
Collecting pycparser (from cffi>=1.14->trio~=0.17->selenium)
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Installing collected packages: sortedcontainers, wsproto, PySocks, pycparser, outcome, exceptiongroup, async-generator, cffi, trio, trio-websocket, selenium
Successfully installed PySocks-1.7.1 async-generator-1.10 cffi-1.15.1 exceptiongroup-1.1.1 outcome-1.2.0 pycparser-2.21 selenium-4.8.3 sortedcontainers-2.4.0 trio-0.22.0 trio-websocket-0.10.2 wsproto-1.2.0

C:\Users\Yashraj Patil>pip show selenium
Name: selenium
Version: 4.8.3
Summary:
Home-page: https://www.selenium.dev
Author:
Author-email:
License: Apache 2.0
Location: C:\Users\Yashraj Patil\AppData\Local\Programs\Python\Python311\Lib\site-packages
Requires: certifi, trio, trio-websocket, urllib3
Required-by:
```

```
C:\Users\Yashraj Patil>
```





Selenium IDE - SETProject*

Project: SETProject*

Executing ▾

✓ 2*

https://www.javatpoint.com/selenium-tutorial

Command

Target

Value

Command

Target

Value

Description

Runs: 1

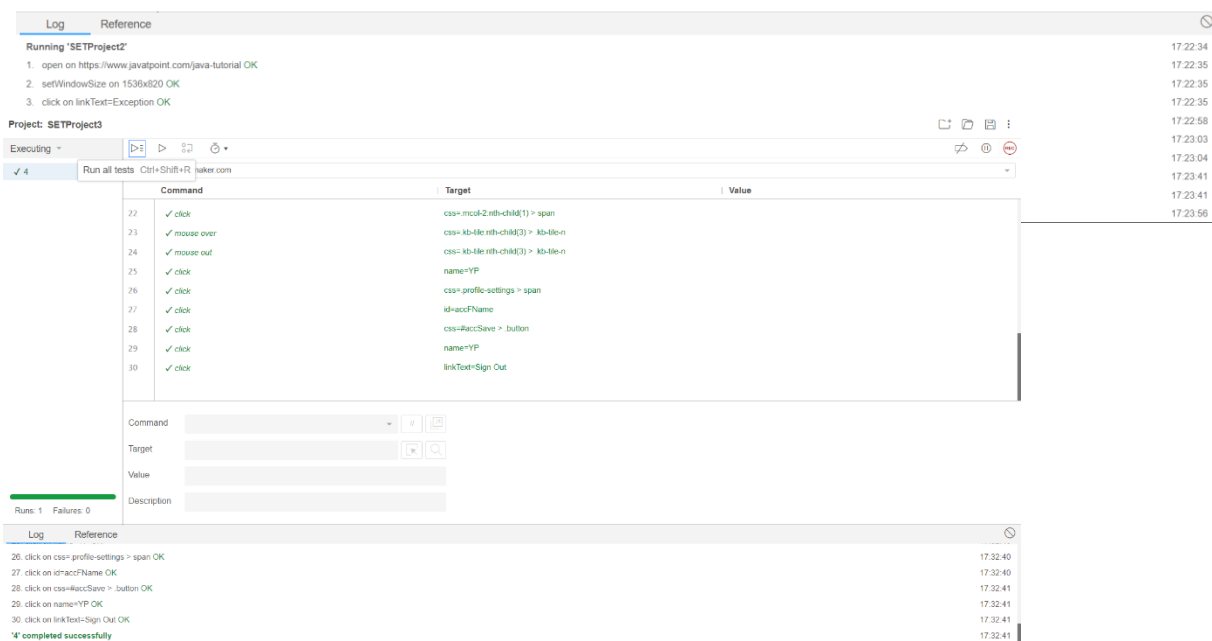
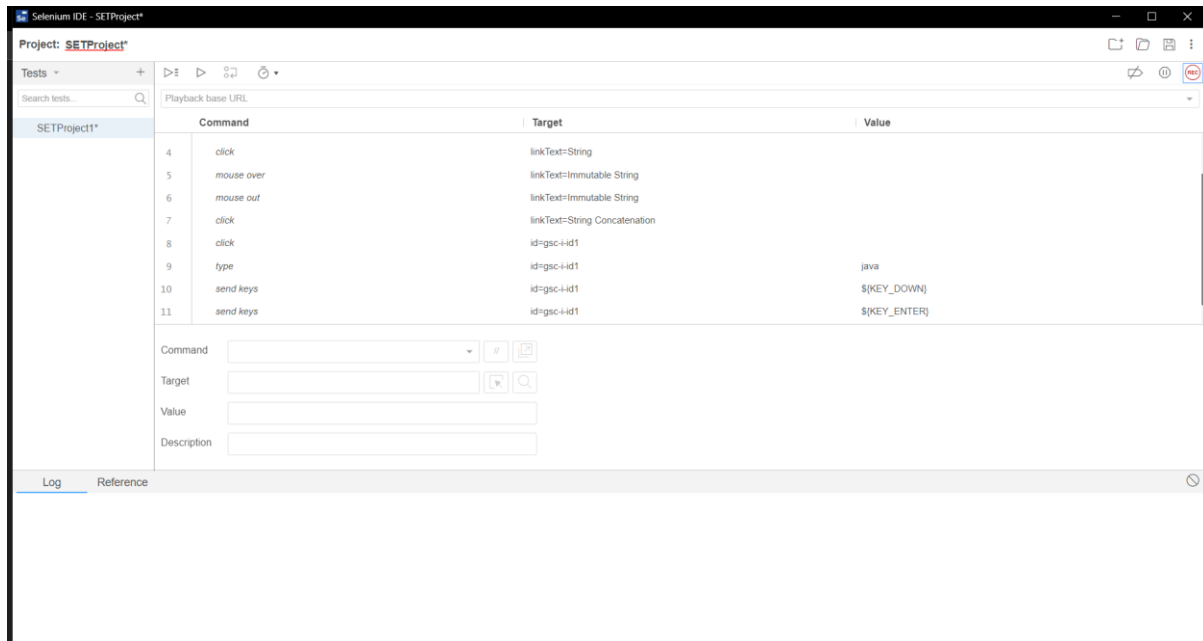
Failures: 0

Log

Reference

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

⇒ 1. Run test case



2. Login Test Case

3. Unsuccessful login Test Case


Selenium IDE - SETProject*



Project: SETProject*

Executing -

http://10.10.10.16:164

Command	Target	Value
1 ✓ open	/login/index.php	
2 ✓ set window size	1536x824	
3 ✓ click	id=username	
4 ✓ click	id=username	
5 ✓ type	id=username	2020btcs00069f3
6 ✓ click	id=password	
7 ✓ type	id=password	43434
8 ✓ click	id=loginbtn	

Command: # 

Target:  

Value:

Description:

Runs: 1 Failures: 0

Log Reference

4. click on id=username OK 11:12:44

5. type on id=username with value 2020btcs00069f3 OK 11:12:45

6. click on id=password OK 11:12:46

7. type on id=password with value 43434 OK 11:12:47

8. click on id=loginbtn OK 11:12:48

'Unsuccessful Login test case' completed successfully 11:12:49

4. Empty username and password test case

Selenium IDE - SETProject*


Project: SETProject*



Tests +

Search tests...

http://localhost:8080

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' 11:45:26

1. open on /Testlink/login.php OK 11:45:26

2. setWindowSize on 790x656 OK 11:45:26

3. type on id=login with value admin OK 11:45:26

4. type on name=tl_password with value admin OK 11:45:27

5. click on name=login_submit OK 11:45:27

'Successful login Test Case' completed successfully 11:45:27

5. Verify password is hidden (masked) while typing

The screenshot shows the Selenium IDE interface for a project named 'SETProject*'. The test suite is titled '2*' and contains 6 steps. The 'Log' tab is active, showing the execution details for each step.

Step	Command	Target	Value
1	open	/login/index.php	
2	set window size	1536x824	
3	click	id=password	
4	type	id=password	2020BTECS00069
5	assert text	css= login-form-submit	Log in
6	assert element present	css= login-form-submit	

Runs: 1 Failures: 0

Log Reference

- 2. setWindowSize on 1536x824 OK 11:16:46
- 3. click on id=password OK 11:16:46
- 4. type on id=password with value 2020BTECS00069 OK 11:16:47
- 5. assertText on css= login-form-submit with value Log in OK 11:16:48
- 6. assertElementPresent on css= login-form-submit OK 11:16:49

'2' completed successfully 11:16:50

6. Verify that the site throws an error if you try to submit file of that exceeds maximum size limit.

The screenshot shows the Selenium IDE interface for a project named 'SETProject*'. The test suite is titled '2*' and contains 6 steps. The 'Log' tab is active, showing the execution details for each step.

Step	Command	Target	Value
1	open	/login/index.php	
2	set window size	1536x824	
3	click	id=password	
4	type	id=password	2020BTECS00069
5	assert text	css= login-form-submit	Log in
6	assert element present	css= login-form-submit	

Runs: 1 Failures: 0

Log Reference

- 2. setWindowSize on 1536x824 OK 11:16:46
- 3. click on id=password OK 11:16:46
- 4. type on id=password with value 2020BTECS00069 OK 11:16:47
- 5. assertText on css= login-form-submit with value Log in OK 11:16:48
- 6. assertElementPresent on css= login-form-submit OK 11:16:49

'2' completed successfully 11:16:50

7. Verify that the site allows multiple file types to be uploaded, such as .docx, .pdf, or .txt.

The screenshot displays the Selenium IDE interface for a project named 'SETProject*'. The 'Tests' pane on the left shows a list of test cases: 'Empty Username and Password', 'Login Fail*', and 'Successful login Test Case'. The 'Successful login Test Case' is selected, and its steps are visible in the main command table. The table has columns for 'Command', 'Target', and 'Value'. The steps include opening the login page, setting window size, and typing 'admin' into the username and password fields. The 'Log' pane at the bottom shows the execution of the 'Successful login Test Case' completed successfully at 11:47:27.

Command	Target	Value
open	http://localhost:8080/Testlink/login.php	
set window size	790x656	
type	id=login	admin
type	name=tl_password	admin
type	id=login	
click	name=tl_password	
type	name=login_submit	
click	id=login	admin
type	name=tl_password	admin

Log Reference

Running 'Successful login Test Case'

- 1. open on /Testlink/login.php OK 11:47:25
- 2. setWindowSize on 790x656 OK 11:47:26
- 3. type on id=login with value admin OK 11:47:26
- 4. type on name=tl_password with value admin OK 11:47:26
- 5. click on name=login_submit OK 11:47:26

'Successful login Test Case' completed successfully 11:47:27

8. Verify that the site prevents a user from submitting an assignment if they have already submitted it before.

The screenshot displays the Selenium IDE interface for a project named 'SETProject*'. The 'Executing' pane on the left shows a list of test cases: 'Unsuccessful Login test case'. The 'Unsuccessful Login test case' is selected, and its steps are visible in the main command table. The table has columns for 'Command', 'Target', and 'Value'. The steps include opening the login page, setting window size, and typing '2020btcs00069f3' into the username field and '43434' into the password field. The 'Log' pane at the bottom shows the execution of the 'Unsuccessful Login test case' completed successfully at 11:12:49.

Command	Target	Value
open	/login/index.php	
set window size	1536x824	
click	id=username	
click	id=username	
type	id=username	2020btcs00069f3
click	id=password	
type	id=password	43434
click	id=loginbtn	

Log Reference

Runs: 1 Failures: 0

4. click on id=username OK 11:12:44

5. type on id=username with value 2020btcs00069f3 OK 11:12:45

6. click on id=password OK 11:12:46

7. type on id=password with value 43434 OK 11:12:47

8. click on id=loginbtn OK 11:12:48

'Unsuccessful Login test case' completed successfully 11:12:49

9. Verify that a user can view their submitted assignments and any feedback or grades provided by the instructor.

The screenshot displays the Selenium IDE interface for a project named 'SETProject'. The top window shows the 'Executing' status and a table of commands. The bottom window shows the 'Unsuccessful Login test case' execution details, including a table of commands and a log of events.

Command	Target	Value
open	/login/index.php	

Command	Target	Value
open	/login/index.php	
set window size	1536x824	
click	id=username	
click	id=username	
type	id=username	2020btects00069f3
click	id=password	
type	id=password	43434
click	id=loginbtn	

Runs: 1 Failures: 0

Log

- 4. click on id=username OK
- 5. type on id=username with value 2020btects00069f3 OK
- 6. click on id=password OK
- 7. type on id=password with value 43434 OK
- 8. click on id=loginbtn OK

"Unsuccessful Login test case" completed successfully

10. Verify that the site displays the correct assignment details, such as the due date and submission instructions.