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Date:17/08/2020

## PRACTICAL NO. 1

**Aim :-** Install Selenium IDE; Write a test suite containing minimum 4 test cases for different formats.

### Installation of Selenium IDE in Chromium Browser

**Step-1 :-** Launch Chromium browser.

**Step-2 :-** Search for Selenium IDE in the "chrome web store".

**Step-3 :-** Select "Add to Chrome" Button which will lead to chromium pop-up asking for permission to add the extension, click "Add Extension" button.

**Step-4 :-** Chromium will automatically download and install the extension. Which can be accessed from the "Extensions" Icon Button on the Navigation Bar.

**Step-5 :-** Clicking on the selenium IDE icon, the extension will open a new window with the selenium IDE.

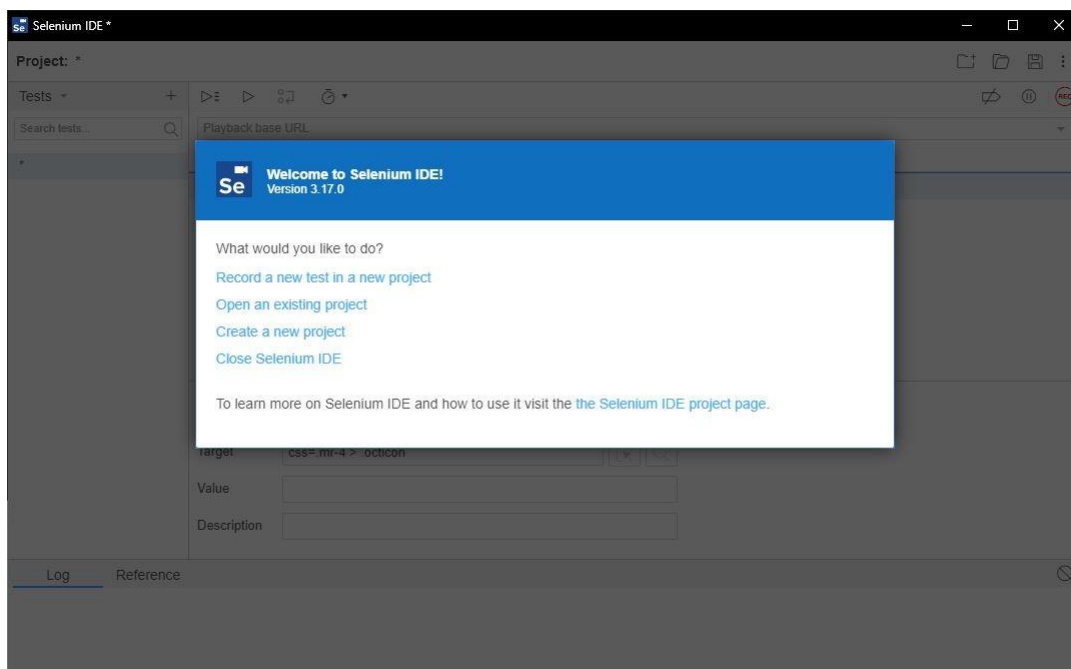


Figure 1: Selenium IDE Window

## **Creating/Recording and Running a Test Suite**

**Step-1 :-** Launch the Chromium browser and open the selenium IDE extension.

**Step-2 :-** When the Welcome screen of selenium IDE is visible, select the option "create a new project".

**Step-3 :-** Give an appropriate name to the project and rename the untitled default test case to another appropriate title.

**Step-4 :-** Set the "Playback base URL" to the URL value of the website/webpage you wish to test.

**Step-5 :-** At this point you have two choices where in you can either manually type the test steps in the IDE or let selenium record the steps for you by clicking the "Record button ON".

**Step-6 :-** We will first Record the steps using selenium's Record functionality. On clicking the "Record button ON" or keyboard shortcut "Ctrl-U".

**Step-7 :-** A new window will pop up with the base URL provided by us earlier , this window is special because selenium will record our mouse clicks and key inputs. *Be careful not to reveal any sensitive information in the record mode.*

**Step-8 :-** Now perform the testing on various elements of the HTML document either by direct clicks/key inputs or by selecting various methods from the "right-click → selenium drop-down menu" which will provide various options for assert various elements and validate various values.

**Step-9 :-** You can try out filling forms, dummy login credential test and a lot more.

**Step-10 :-** After you are done with the test script click on "Stop Recording" button or keyboard shortcut "Ctrl-U".

**Step-11 :-** Save the test script by clicking on "Save project icon" or keyboard shortcut "Ctrl-S".

**Step-12 :-** Next save the script in the desired folder path and selenium will download the ".side" file to the same .

**Step-13 :-** You can reopen the saved Project by clicking "Open Project icon" or key- board Shortcut "Ctrl-O" and selecting the ".side" file from the desired location.

**Step-14 :-** To run the test click on "Playback icon" button and selenium will run the test as per the script and log all the events in the window. You can verify which steps succeed and which ones fail with Error messages as well.

**Step-15 :-** The test script can be written manually as well and will produce the same results.

**Selenium IDE Features**

1. Menu Bar Menu bar is positioned at the top most portion of the Selenium IDE interface. It allows the user to change name/open project/save project and more.

Figure

2: Menu Bar 2. ToolBar The toolbar offers options such as play test/record test and play all the tests in test suite. More advanced features such as breakpoints/debugger are also available

3. Test case panel This panel allows the user to add/delete /modify the selenium commands. The Command, Target, and Value entry fields display the currently selected command along with its parameters. These are entry fields where you can modify the currently selected command. The first parameter specified for a command in the Reference tab of the bottom pane always goes in the Target field. If a second parameter is specified by the Reference tab, it always goes in the Value field. The Comment field allows you to specify in a human readable format a description of the current command.

4. Navigation Panel Navigation between test cases and test suites is done through the right hand side of Selenium IDE. Clicking on Tests with the small caret will open up a menu. When saving the project will be saved as the new .side format, which will include all test cases and suites combined. It is referred to as a project.

5. Console Panel The bottom pane, called Console Panel for it's similarity with web devtools, is used for different utility functions: Log, Reference, depending on which tab is selected.

## Test Case 1 :

**Test URL :** <https://login.mailchimp.com/>

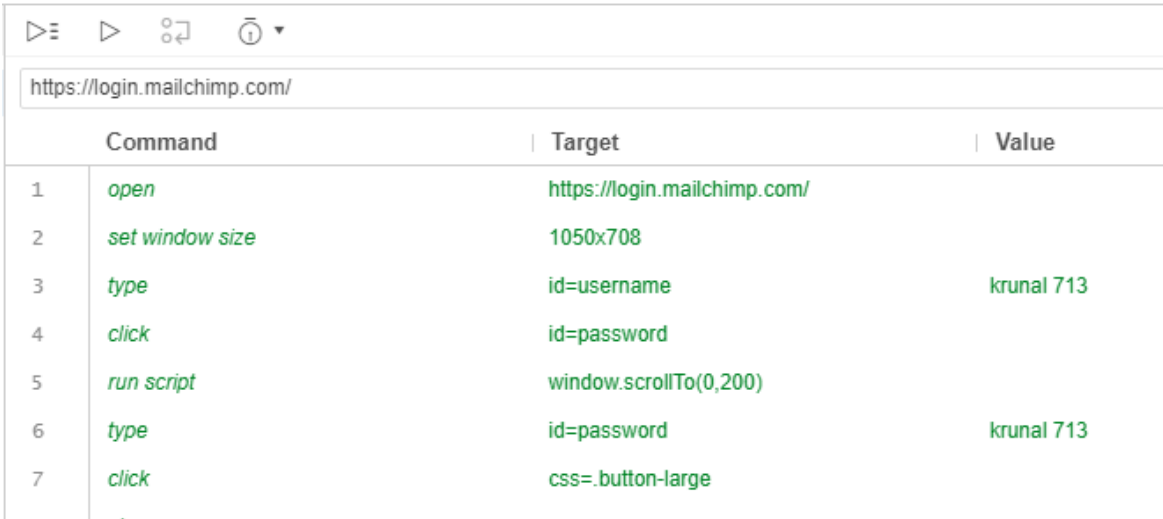
Selenium Commands used :

Command-1 :-set window size

Command-2 :-click

Command-3 :-type

Command-4 :-close



The screenshot shows the Selenium IDE interface with a test script executed successfully. The address bar displays <https://login.mailchimp.com/>. Below it is a table with three columns: Command, Target, and Value.

	Command	Target	Value
1	open	<a href="https://login.mailchimp.com/">https://login.mailchimp.com/</a>	
2	set window size	1050x708	
3	type	id=username	krunal 713
4	click	id=password	
5	run script	window.scrollTo(0,200)	
6	type	id=password	krunal 713
7	click	css=.button-large	

Figure 2: First Test Script Executed Successfully

## Test Case 2 :

**Test URL :** <https://www.shopify.in/tour/ecommerce-website/>

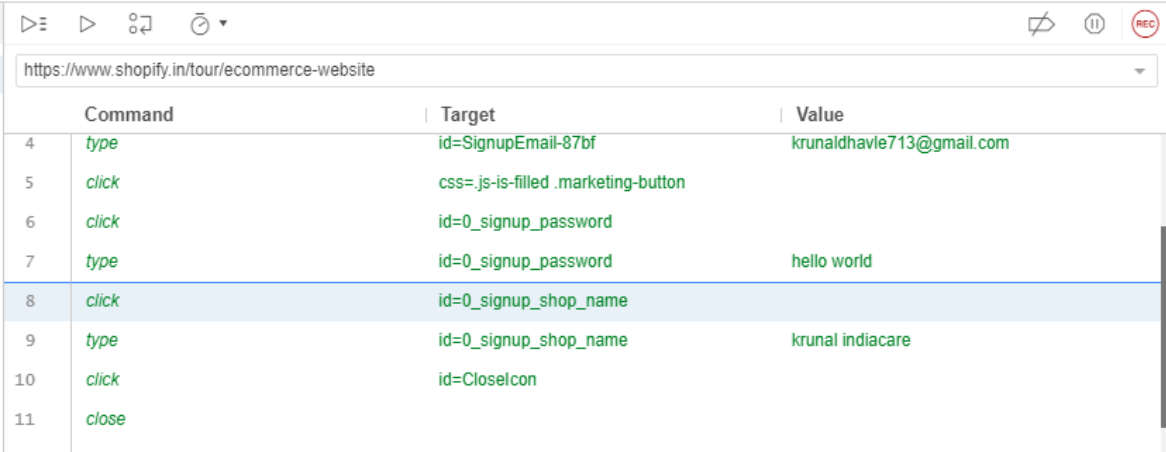
Selenium Commands used :

Command-1 :-open

Command-2 :-type

Command-3 :-click

Command-4 :-close



	Command	Target	Value
4	type	id=SignupEmail-87bf	krunaldhavl713@gmail.com
5	click	css=.js-is-filled .marketing-button	
6	click	id=0_signup_password	
7	type	id=0_signup_password	hello world
8	click	id=0_signup_shop_name	
9	type	id=0_signup_shop_name	krunal indiacare
10	click	id=CloseIcon	
11	close		

Figure 3: Second Test Script Executed Successfully

## Test Case 3 :

**Test URL :** http://www.google.com/

**Selenium Commands used :**

Command-1 :-open

Command-2 :-mouse

Command-3 :-send

Command-4 :-click

Command-5 :-close

Project: test2\*

Tests: test2\*, test3\*, test4\*

Search tests...

https://www.google.com/

Command	Target	Value
click	name=q	
send keys	name=q	\$(KEY_DOWN)
type	name=q	selenium ide commands
send keys	name=q	\$(KEY_ENTER)
click	css=g.nth-child(1).LC20lb	
close		

Command: [dropdown] [//] [img]

Target: [input] [img] [img]

Value: [input]

Description: [input]

Log Reference

- 6. type on name=q with value selenium ide commands OK 20:08:39
- 7. click on css=g.nth-child(1).LC20lb OK 20:08:39
- 8. close OK 20:08:41

\*test4\* completed successfully 20:08:41

Figure 4: Third Test Script Executed Successfully

## Test Case 4 :

**Test URL :** <https://www.netflix.com/in/Login>

Selenium Commands used :

Command-1 :-wait for element

Command-2 :-click

Command-3 :-assert checked

Command-4 :-type

Command-5 :-close

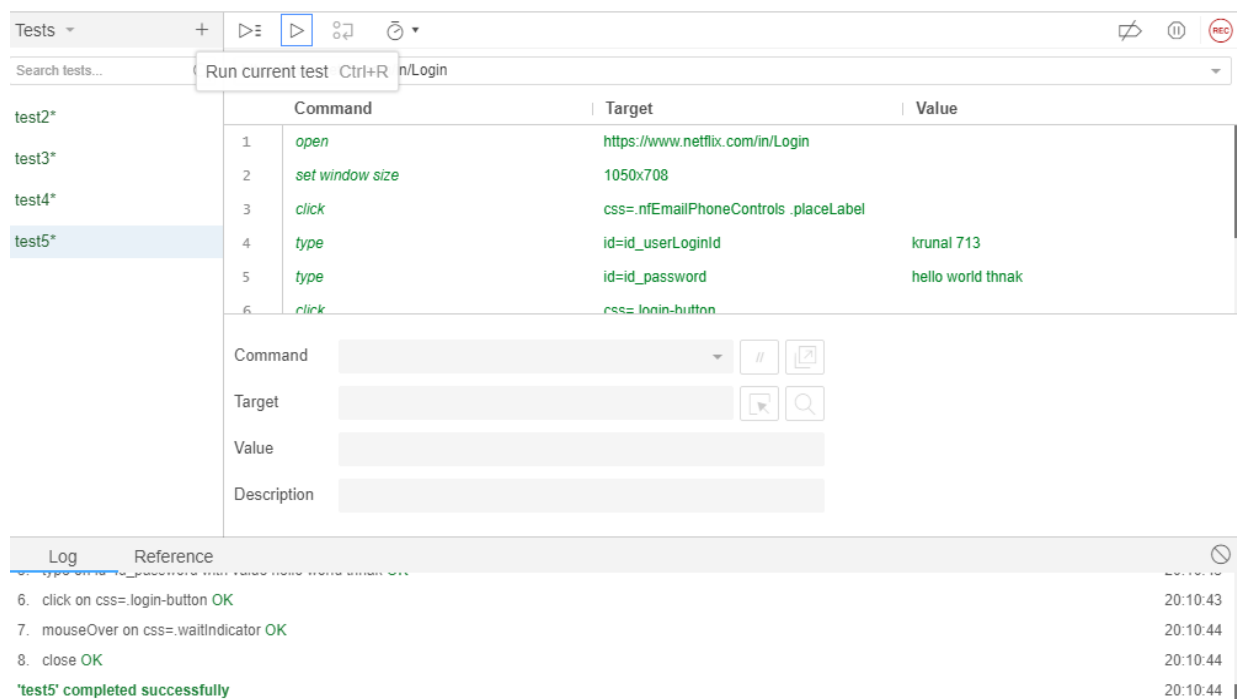


Figure 5: Fourth Test Script Executed Successfully