

## Practical-1

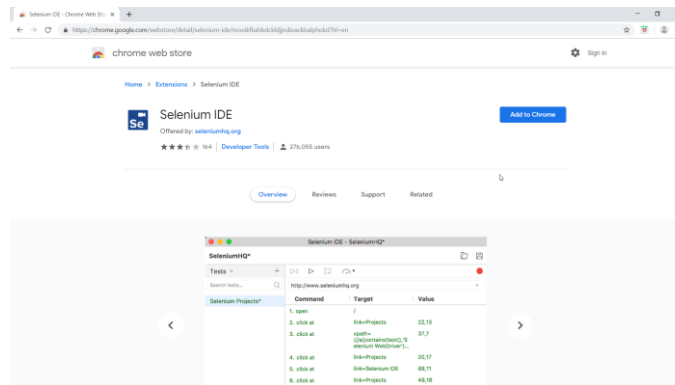
**#AIM: Install Selenium IDE. Write a test suite containing minimum 4 test cases for different formats.**

### REQUIREMENTS:

- 1) Selenium IDE extension on a browser.
- 2) NetBeans IDE for creating test case files.

### STEPS:

- 1) Just google “Selenium IDE chrome” and click on the first link. Add the “Selenium IDE” extension to your browser.



- 2) For testing, we need a test case suite, so we create a WebApplication in NetBeans IDE.

**File > New Project > Java Web > Web Application > Add GlassFish Server > Finish.**

- 3) In *index.html*, we write the following code for “ARITHMETIC OPERATIONS” test case suite:

**---index.html---**

```
<html>
<head>
<title>prac1</title>
<script language="javascript">
    function addition()
    {
        var num1=parseInt(document.arithmetic.n1.value);
        var num2=parseInt(document.arithmetic.n2.value);
        var result=num1+num2;
        document.arithmetic.res.value=result;
    }

    function subtraction()
    {
        var num1=parseInt(document.arithmetic.n1.value);
        var num2=parseInt(document.arithmetic.n2.value);
        var result=num1-num2;
        document.arithmetic.res.value=result;
    }

    function multiplication()
```

```

    {
        var num1=parseInt(document.arithmetic.n1.value);
        var num2=parseInt(document.arithmetic.n2.value);
        var result=num1*num2;
        document.arithmetic.res.value=result;
    }

function division()
{
    var num1=parseInt(document.arithmetic.n1.value);
    var num2=parseInt(document.arithmetic.n2.value);
    var result=num1/num2;
    document.arithmetic.res.value=result;
}
</script>
</head>

<body>
    <h1 align="center"> Arithmetic Operations </h1>
    <form name="arithmetic">
        <table border="1" align="center">

            <tr>
                <td>Number 1: </td>
                <td><input type="text" name="n1" size="20"></td>
            </tr>

            <tr>
                <td>Number 2: </td>
                <td><input type="text" name="n2" size="20"></td>
            </tr>

            <tr>
                <td colspan=2>
                    <input type="button" name="add" value="Add"
onclick="javascript:addition();">&nbsp;
                    <input type="button" name="sub" value="Subtract"
onclick="javascript:subtraction();">&nbsp;
                    <input type="button" name="mul" value="Multiply"
onclick="javascript:multiplication();">&nbsp;
                    <input type="button" name="div" value="Divide"
onclick="javascript:division();">&nbsp;
                </td>
            </tr>

            <tr>
                <td colspan="2">Result is: <input type="text" name="res" size="20"
value=""></td>

```

```

        </tr>

    </table>
</form>
</body>
</html>

```

- 4) Create a JSP file “newjsp.jsp” with a link to the created HTML file.

---newjsp.jsp---

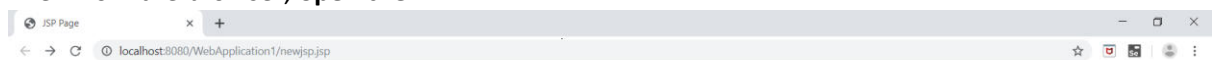
```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
</head>
<body align="center">
    <h1>Test Cases IDE</h1>
    <a href="index.html">Arithmetic Operations</a>
</body>
</html>

```

- 5) Run this JSP file from NetBeans. It will then open up in a browser.

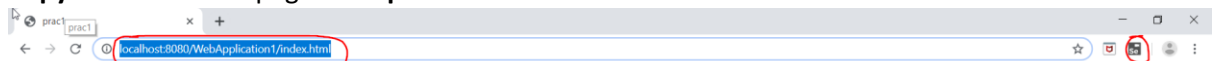
- Then from the browser, open the link:



Test Cases IDE



- Now you'll be redirected to ARITHMETIC OPERATIONS page.  
Copy the URL of the page and open “Selenium IDE” extension:

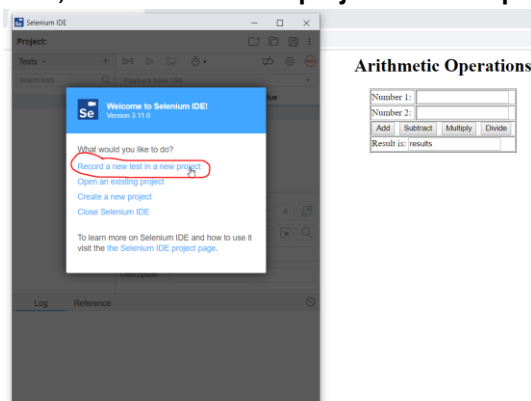


Arithmetic Operations

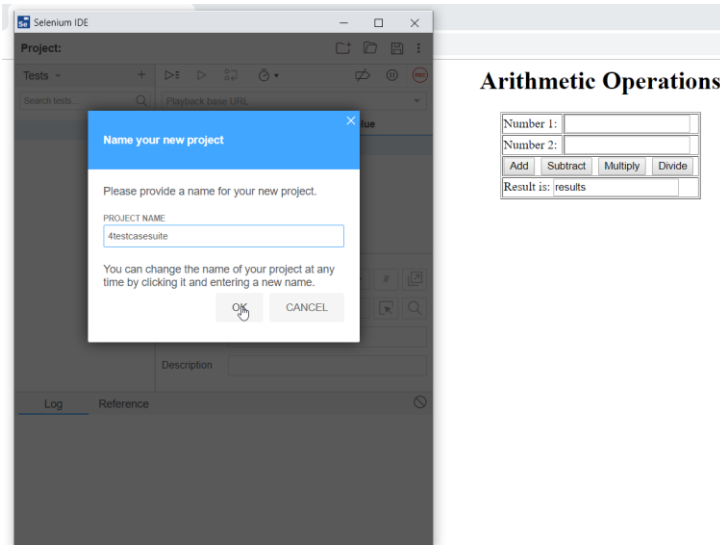
Number 1:	<input type="text"/>
Number 2:	<input type="text"/>
Add	Subtract
Multiply	Divide
Result is: results	



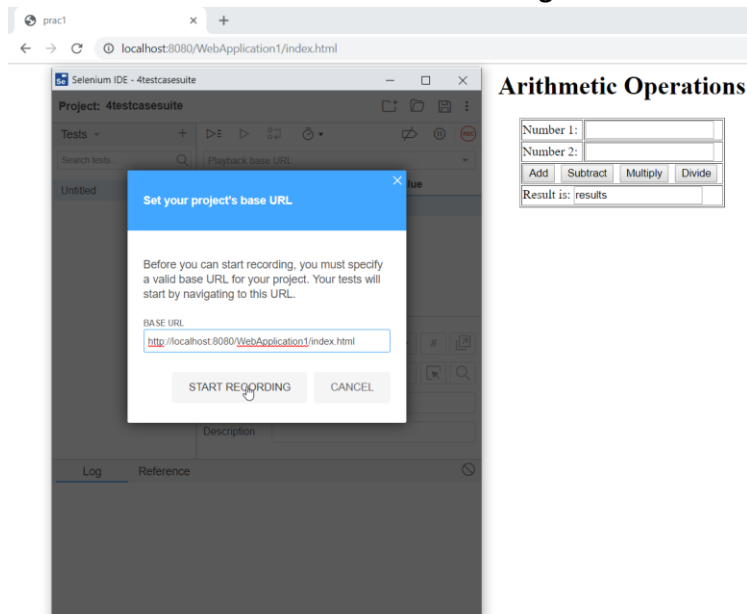
- Now, Record a new test project in a new project:



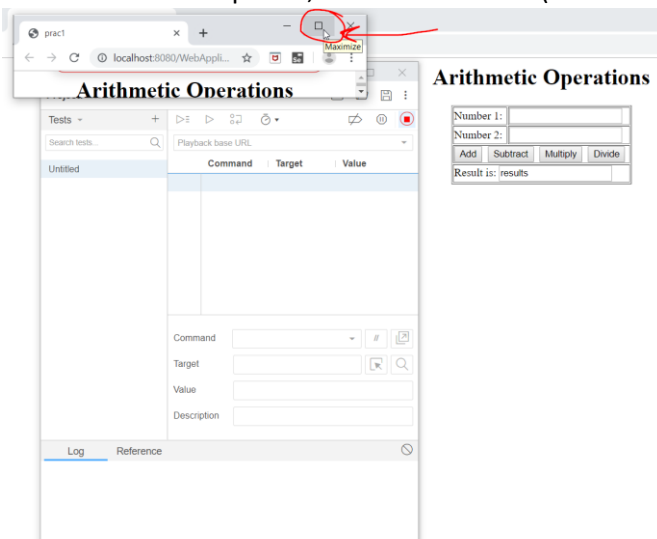
- **Name your project:**



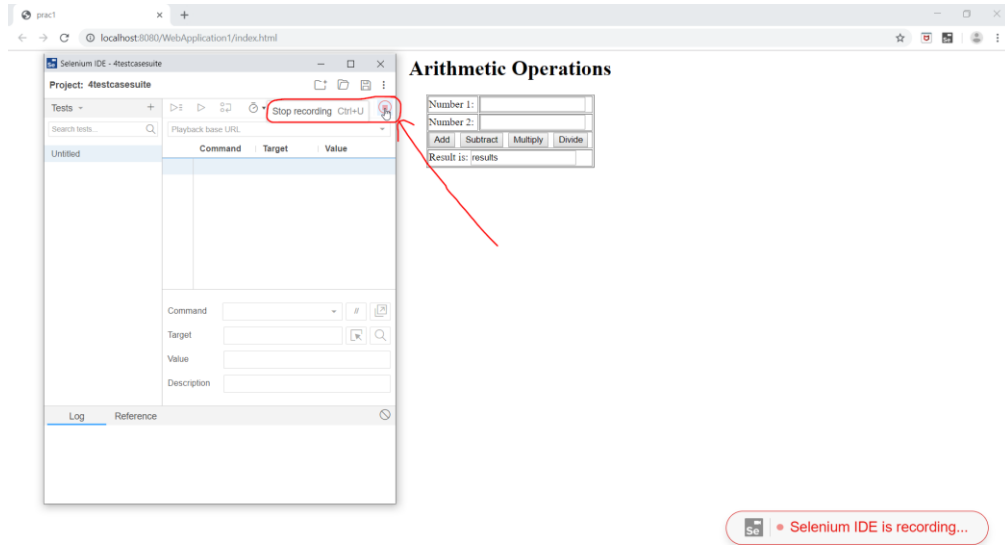
- **Paste that URL here and click Start Recording:**



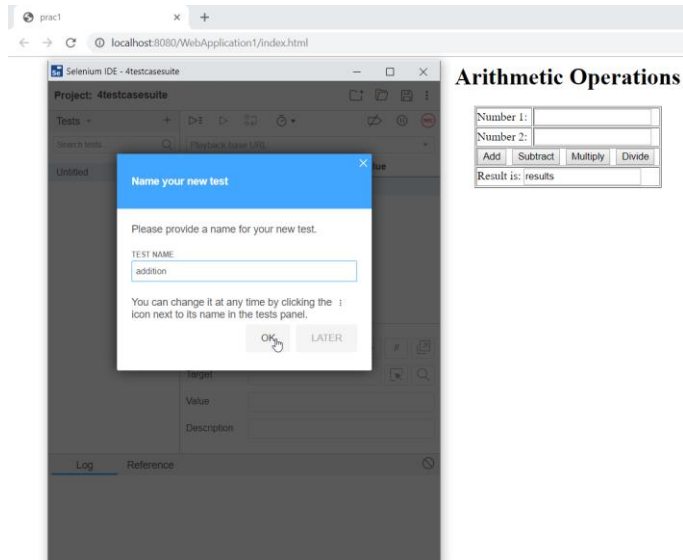
- **A new tab will be opened, maximize that tab (this tab is your working tab for recording):**



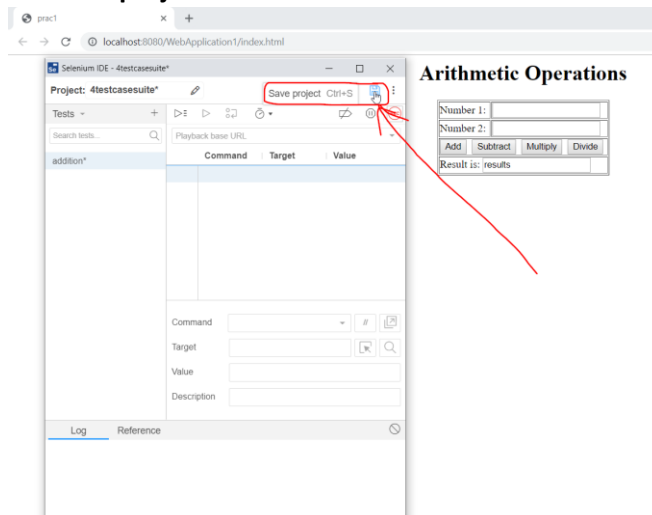
- Click on **Stop Recording**:



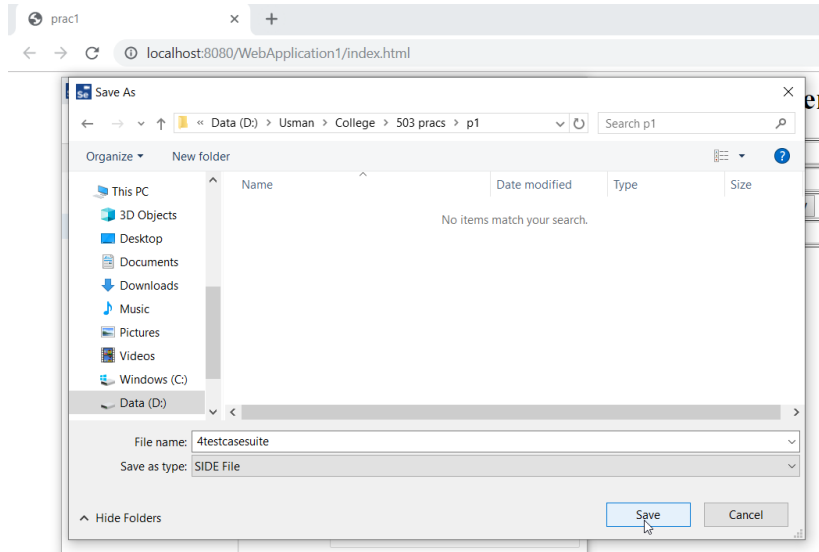
- Just as you stop your recording, you'll be prompted to **Name your new test**, we'll make our new test as **"addition"**:



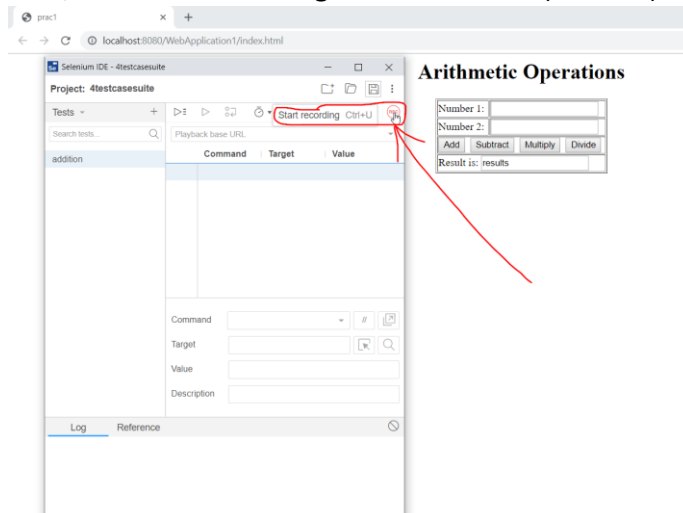
- Save the project** after each test case:



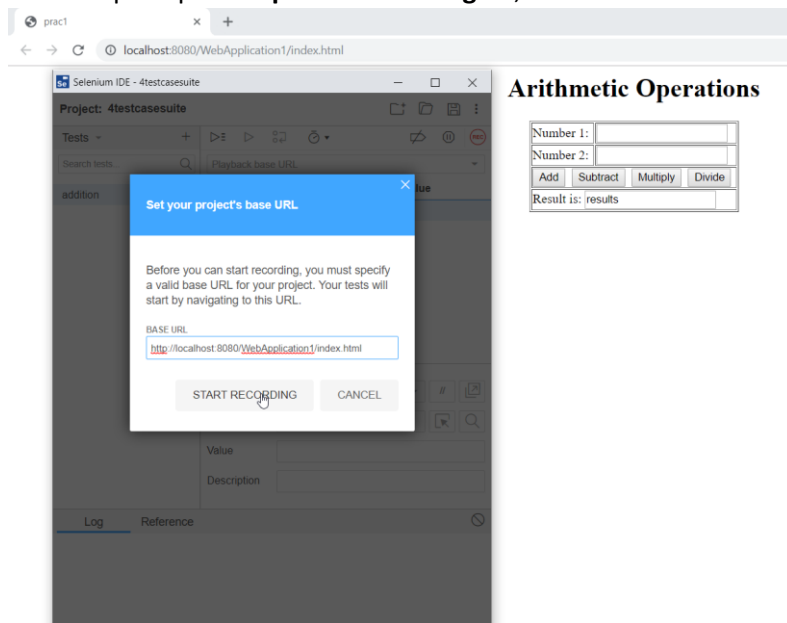
- A file with **“.SIDE”** extension will be saved(SIDE abbrev to **Selenium IDE**):



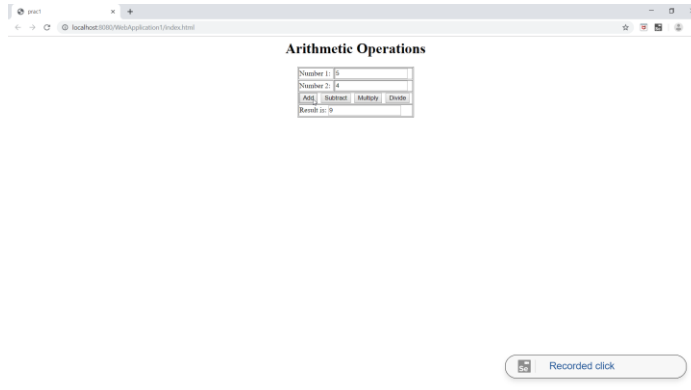
- Now, we'll **Start Recording** our first test case(addition):



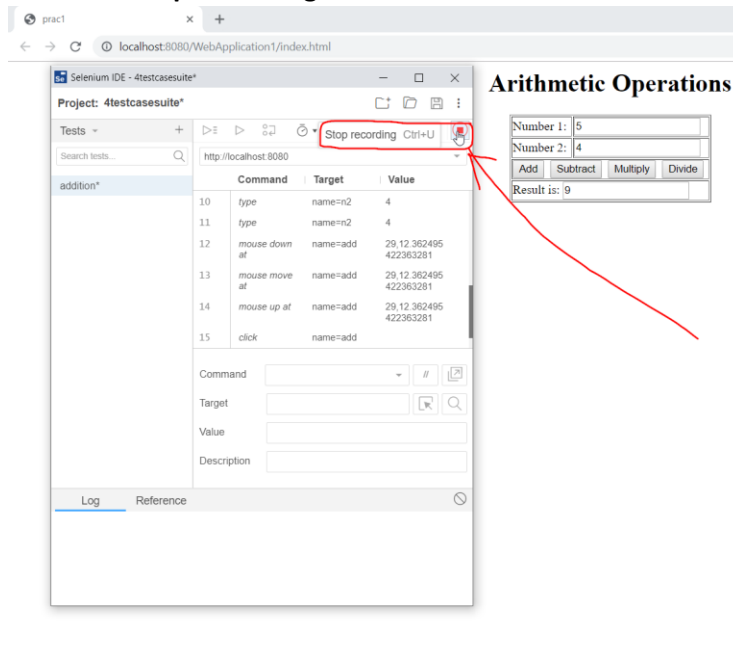
- We'll be prompted to **paste our URL** again, then click **Start Recording**:



- NOTE THAT each clicks are recorded:

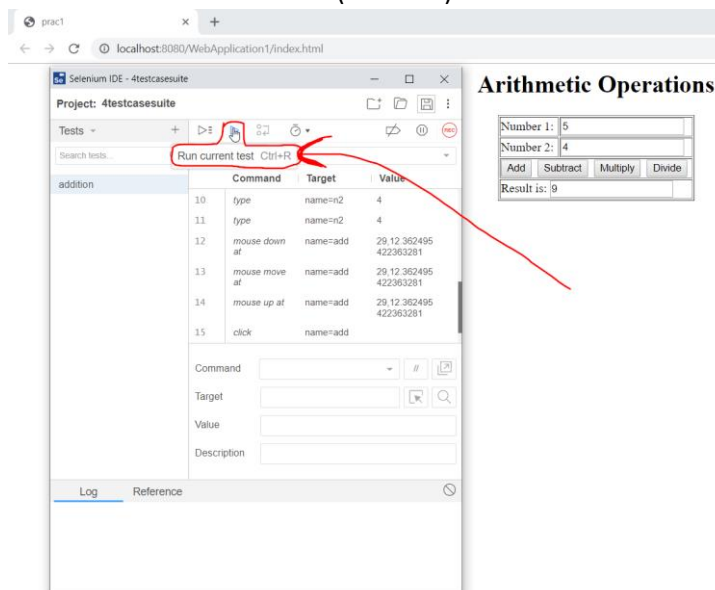


- Now we'll Stop Recording from the Selenium IDE:

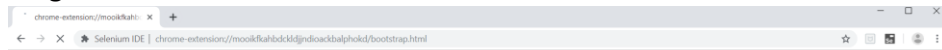


• Selenium IDE is recording...

- We'll then Run current test(addition):



- The **test will run automatically** and the **completion will be shown step-by-step** in the **“Log”** area in the Selenium IDE:



The screenshot shows the Selenium IDE interface with the 'addition' test suite selected. The log area shows the following entries:

Command	Target	Value	Log
type	name=n2	4	12. mouseDownAt on name=add with value 29,12.362495422363281 OK
type	name=n2	4	13. mouseMoveAt on name=add with value 29,12.362495422363281 OK
mouse down at	name=add	29,12.362495422363281	14. mouseUpAt on name=add with value 29,12.362495422363281 OK
mouse move at	name=add	29,12.362495422363281	15. click on name=add OK
mouse up at	name=add	29,12.362495422363281	'addition' completed successfully
click	name=add		

### Arithmetic Operation:

Number 1:	5
Number 2:	4
Add	Subtract
Multiply	Divide
Result is:	9

- NOTE1: You can set the “Test execution speed” too:**

The screenshot shows the Selenium IDE interface with the 'addition' test suite selected. A red circle highlights the 'Test execution speed' slider, which is set to 'Fast'. The log area shows the following entries:

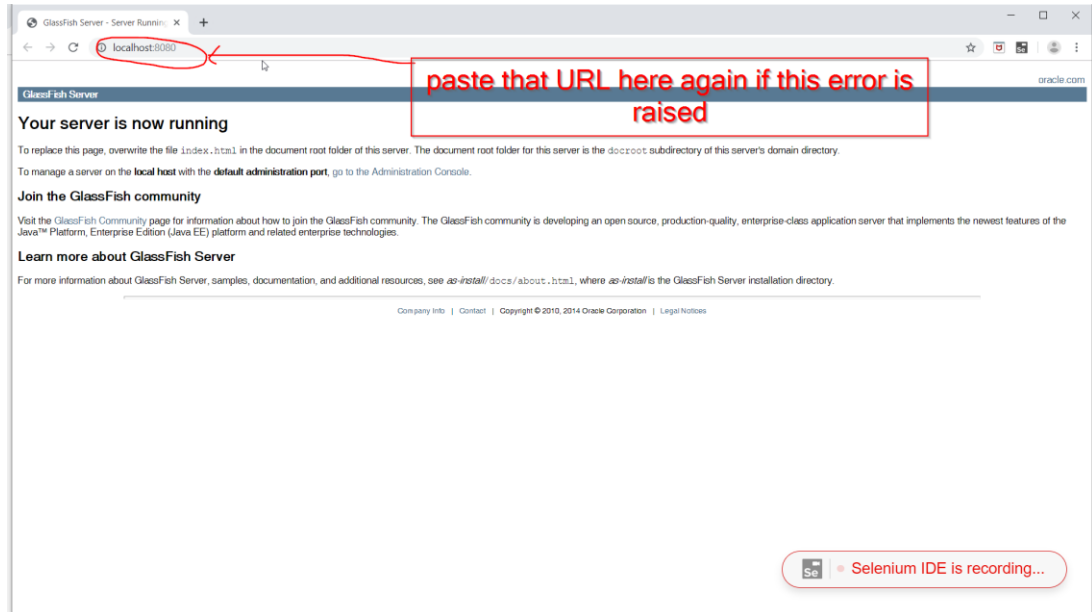
Command	Target	Value	Log
type	name=n2	4	12. mouseDownAt on name=add with value 29,12.362495422363281 OK
mouse down at	name=add	29,12.362495422363281	13. mouseMoveAt on name=add with value 29,12.362495422363281 OK
mouse move at	name=add	29,12.362495422363281	14. mouseUpAt on name=add with value 29,12.362495422363281 OK
mouse up at	name=add	29,12.362495422363281	15. click on name=add OK
click	name=add		'addition' completed successfully

### Arithmetic Operations:

Number 1:	5
Number 2:	4
Add	Subtract
Multiply	Divide
Result is:	9



- **NOTE2: Paste here the URL again if the Glassfish Error occurs between any test case:**



- **Now create 3 more test cases(subtraction, multiplication, division). Then “Run all tests”:**

pract1

localhost:8080/WebApplication1/index.html

Selenium IDE - 4testcasesuite

Project: 4testcasesuite

Tests

Search tests...

addition

division

multiplication

subtraction

Run all tests Ctrl+Shift+R

	Command	Target	Value
2	set window size	1536x864	
3	click	name=n1	
4	type	name=n1	5
5	click	name=n2	
6	type	name=n2	4
7	click	name=div	

Command

Target

Value

Description

Log

Reference

4.	type on name=n1 with value 5 OK	23:34:35
5.	click on name=n2 OK	23:34:35
6.	type on name=n2 with value 4 OK	23:34:35
7.	click on name=div OK	23:34:36
'division' completed successfully		23:34:36

## Arithmetic Operations

Number 1:	5		
Number 2:	4		
Add	Subtract	Multiply	Divide
Result is:	1.25		

6) **Finish!**