Lab 14

Part 1:

First check which version of chrome you are running and then download the corresponding windows chrome driver from https://chromedriver.storage.googleapis.com/index.html

Unzip the chrome driver somewhere on your filesystem

Given is the project **WebdriverProject**
In the folder **src/test/java/withoutpageobject** you find the file **CalculatorTest** that test the working of the online calculator at http://www.rekenmachine-calculator.nl/

Modify the file so that the chrome driver points to the correct file location:

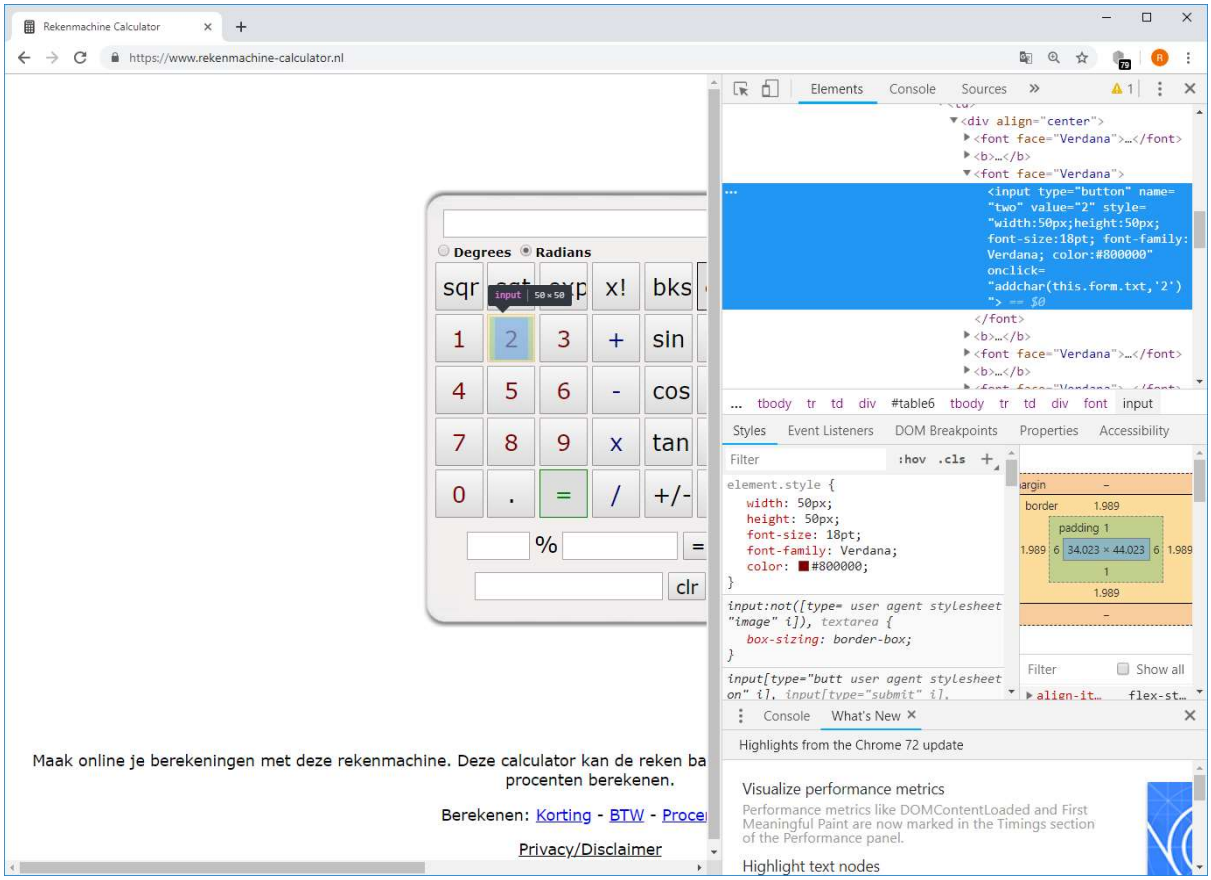
```
@Before
public void createWebDriver() {
  // set path to chromedriver.exe
  System.setProperty("webdriver.chrome.driver", "C:\\waa\\chromedriver.exe");
```

Run the test and if everything is correct you should see that the test passed:

Add some more tests that test the correct working of the calculator webpage. If you need to find the locator of a certain web element you can do the following:

In the chrome browser, go to https://www.rekenmachine-calculator.nl/

Right-click a webelement (for example the button 2) and select **Inspect**.



You see now that this button has the locator **name="two"**

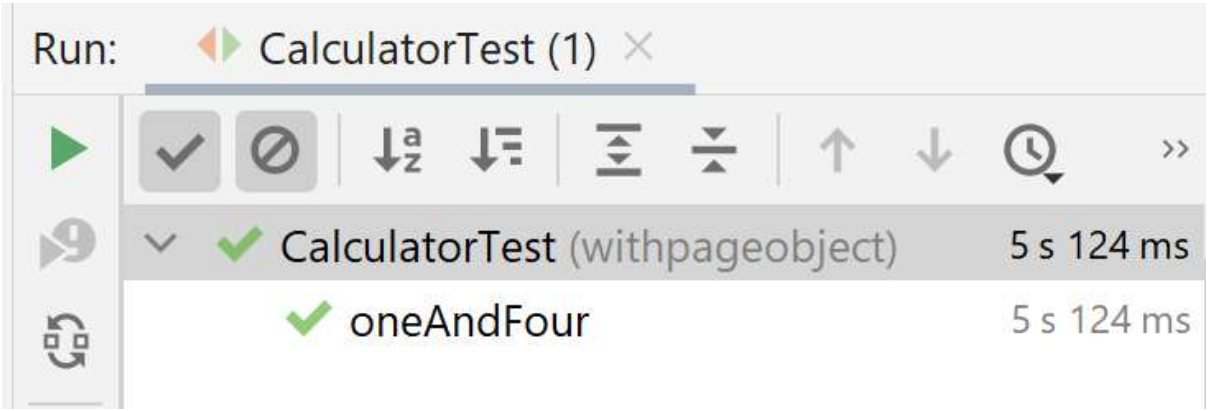
You can also right-click in the Elements tab, and select **Copy->Copy Selector** to get the CSS selector for this webelement.

You can also right-click in the Elements tab, and select **Copy->Copy Xpath** to get the XPath selector for this webelement.

Part 2:

In the same **WebdriverProject** you find an example using a page object in the folder **src/test/java/withoupageobject**:

If you run the class **CalculatorTest** then this test succeeds without errors:



Write some new tests that tests the correct working of the calculator. To do this, you also have to add more code to the CalculatorPage class.

Part 3:

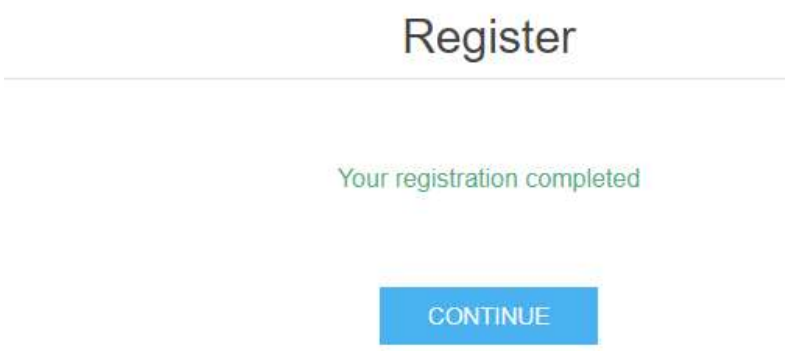
In React write a a calculator that can add, subtract and multiply 2 numbers. Write a selenium test using a page object to test the calculator.

Part 4:

In React write a calculator that can add, subtract and multiply 2 numbers. When you enter the calculation information and click the add, subtract or multiply button, the application should navigate to the results page that shows the result of the calculation. Write a selenium test using a page object to test the calculator.

Part 5:

Write a new selenium webdriver tests for the registration process at the site **http://demo.nopcommerce.com/** using page objects
First click the registerbutton.
Then fill in the registration form
Then check if the new page shows the text "**Your registraion completed**"



For this site you need to register everytime with an unique email address.
In java you can create a unique email address using a random number:

```
private String createUniqueEmail() {
      String email="@gmail.com";
      String name="frank"+ createRandomNumber();
      return name+email;
}

private int createRandomNumber() {
      return (int) (Math.random() * 5000 + 1);
}
```

What to hand in?

1. Create a zip file with only App.js and all other necessary .js files for the React part this lab. Do not send a zip of the whole directory because that is a large file.
2. A zip file withal the selenium test code
3. Write a readme.txt file with the following content:
   a) Status of the lab. Describe here if you finished all parts of the lab or not. If you did not finish the lab, describe which parts are finished, and which parts not. Describe clearly why some parts are not finished.
   b) Write the following statement and sign with your name:

   I hereby declare that this submission is my own original work and to the best of my knowledge it contains no materials previously published or written by another person. I am aware that submitting solutions that are not my own work will result in an NC of the course.

   I am aware that I am not allowed to share solutions with other students.

   I am aware that if I submit only parts of this lab that points will be subtracted.

   I am aware that if my lab submission does not contain this readme.txt file that I do not get points for this lab.

   [your name as signature]