

ASSIGNMENT 4

Task1:

- Please try to configure Chrome Browser and navigate to <https://datatables.net/>
- Click on the name (Eg: Airi Satou) which expands and gives you the salary details from the table
- Similarly get salary details from the table and calculate the total salary of all the employees and provide the result

Solution:

```
package com.ibm.seleniumassignments;

import java.util.List;
import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.WebDriverWait;

public class GetTotalSalary {
    public static void main(String[] args){
        //About the program
        System.out.println("This program will find out the total salary of all
the employees in the page");
        //Set property for chrome driver
        System.setProperty("webdriver.chrome.driver", "./chromedriver.exe");
        WebDriver chrdriver=new ChromeDriver();
        //Explicit Wait
        WebDriverWait wait=new WebDriverWait(chrdriver, 60);
        //To maximize the window
        chrdriver.manage().window().maximize();
        //Implicit Wait
        chrdriver.manage().timeouts().implicitlyWait(30,TimeUnit.SECONDS);
        //Launch page
        chrdriver.get("https://datatables.net/");
        String url=chrdriver.getCurrentUrl();
        System.out.println("Application URL: "+url);
        String title=chrdriver.getTitle();
        System.out.println("Initial Page Title: "+title);
        //To get the no.of rows in the table of a loaded page
        List<WebElement> rowCount=
chrdriver.findElements(By.xpath("//table[@id='example']/tbody/tr"));
        int noOfRows=rowCount.size();
        System.out.println("No.of rows in the current table: "+noOfRows);
        int totalSalary=0;
        for(int i=1;i<=(noOfRows*2);i++)
        {
            //To position the 'i'th row and first column of the table
```

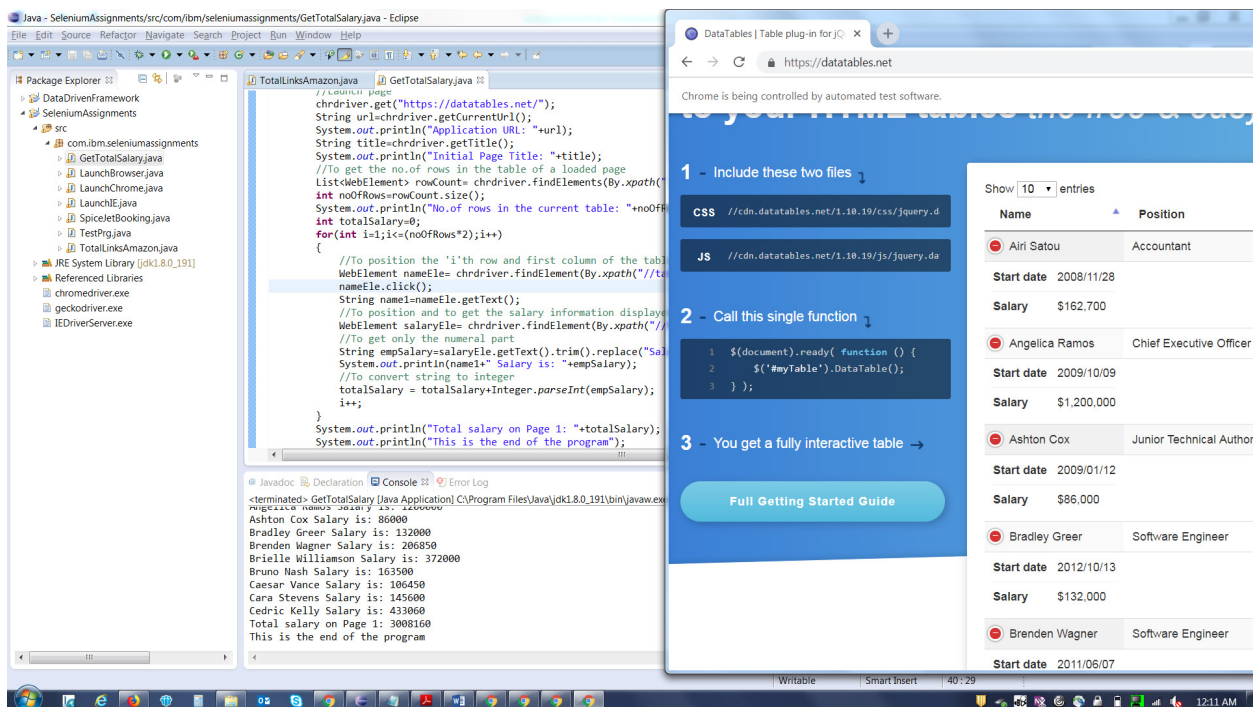
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```

WebElement nameEle=
chrdriver.findElement(By.xpath("//table[@id='example']/tbody/tr["+i+"]/td[1]"));
nameEle.click();
String name1=nameEle.getText();
//To position and to get the salary information displayed below
the name

WebElement salaryEle=
chrdriver.findElement(By.xpath("//table[@id='example']/tbody/tr["+i+"]/td[1]"));
//To get only the numeral part
String
empSalary=salaryEle.getText().trim().replace("Salary", "").replace("
", "").replace("$", "").replace(",","");
System.out.println(name1+" Salary is: "+empSalary);
//To convert string to integer
totalSalary = totalSalary+Integer.parseInt(empSalary);
i++;
}
System.out.println("Total salary on Page 1: "+totalSalary);
System.out.println("This is the end of the program");
}
}

```

Result flow & Screen shot:


The screenshot displays the Selenium IDE interface on the left and a web browser on the right. The Selenium IDE console shows the output of the script, including the total salary for each page and the end of the program. The web browser shows the DataTables.net website with a table of employees.

Selenium IDE Console Output:

```

<terminated> GetTotalSalary [Java Application] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe
Ashton Cox Salary is: 86000
Bradley Green Salary is: 132000
Brenden Wagner Salary is: 206850
Brielle Williamson Salary is: 372000
Bruno Nash Salary is: 163500
Caesar Vance Salary is: 106450
Cara Stevens Salary is: 145600
Cedric Kelly Salary is: 433060
Total salary on Page 1: 3008160
This is the end of the program

```

Web Browser (DataTables.net) Table:

Name	Position	Start date	Salary
Airi Satou	Accountant	2008/11/28	\$162,700
Angelica Ramos	Chief Executive Officer	2009/10/09	\$1,200,000
Ashton Cox	Junior Technical Author	2009/01/12	\$86,000
Bradley Greer	Software Engineer	2012/10/13	\$132,000
Brenden Wagner	Software Engineer	2011/06/07	

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Task2:

- Please try to configure Chrome Browser and navigate to <https://www.amazon.in/>
- Search for Laptops
- Print the total number of links on the page. Also print the link and link text of the page

Solution:

```

package com.ibm.seleniumassignments;

import java.util.List;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.WebDriverWait;

public class TotalLinksAmazon {
    public static void main(String[] args){
        //About the program
        System.out.println("This program will find out the total number of link
under Laptops from Amazon");
        //Set property for chrome driver
        System.setProperty("webdriver.chrome.driver", "./chromedriver.exe");
        WebDriver chrdriver=new ChromeDriver();
        //Explicit Wait
        WebDriverWait wait=new WebDriverWait(chrdriver, 60);
        //To maximize the window
        chrdriver.manage().window().maximize();
        //Implicit Wait
        chrdriver.manage().timeouts().implicitlyWait(30,TimeUnit.SECONDS);
        //Launch page
        chrdriver.get("https://www.amazon.in/");
        String url=chrdriver.getCurrentUrl();
        System.out.println("Application URL: "+url);
        String title=chrdriver.getTitle();
        System.out.println("Initial Page Title: "+title);
        //To find the search box
        WebElement searchEle=
chrdriver.findElement(By.xpath("//input[@id='twotabsearchtextbox']"));
        searchEle.click();
        //To enter 'Laptop' text in search box
        searchEle.sendKeys("Laptops");
        //To find and click the search icon
        WebElement submitEle=
chrdriver.findElement(By.xpath("//input[@value='Go']"));
        submitEle.click();
        //To find the no.of links in the loaded search result page

```

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```

List<WebElement> linksEle=chrdriver.findElements(By.tagName("a"));
int noOfLinks=linksEle.size();
System.out.println("No.of links in the loaded search result page is:
"+noOfLinks);
//To print the links
for(int i=0;i<noOfLinks;i++)
{
    WebElement linkEle= linksEle.get(i);
    String link=linkEle.getAttribute("href");
    System.out.println(link);
    String text= linkEle.getText();
    System.out.println(text);
}
System.out.println("This is the end of the program");
}
}

```

Result flow and Screen shot: