

1. Problem Statement:

Task

- 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 all the salary details from the table and calculate the total salary of all the employee and provide the result.

NOTE: Since Chrome Browser is not working for me, I am using the Firefox Browser

1.1 Source Code: file name – DataTable.java

```
package seleniumpackage;

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.firefox.FirefoxDriver;

public class DataTable {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.gecko.driver",
            "./Drivers/geckodriver.exe");
        //loads the Firefox Driver
        WebDriver driver =new FirefoxDriver();
        //Opens http://datatables.net page
        driver.get("http://datatables.net");
        driver.manage().timeouts().implicitlyWait(30,TimeUnit.SECONDS);
        driver.manage().window().maximize();
        //taking the list of rows from the table in the page
        List<WebElement>
rowList=driver.findElements(By.xpath("//table[@id='example']/tbody/tr"));
        // taking the Rows size - finding the no of rows
        int Rsize=rowList.size();
        //taking the list of Columns from the table in the page
        List<WebElement>
clmns=driver.findElements(By.xpath("//table[@id='example']/tbody/tr[1]/td"));
        //taking the column size - finding the no of columns
        int Csize=clmns.size();
        System.out.println("Number of Rows from the table in page 1 -
"+Rsize);
        System.out.println("Number of Columns from the table in page 1 -
"+Csize);
        int total=0;

        for(int i=1;i<=Rsize;i++)
        {
            int j=i+1;
```

```

        WebElement
nameEle=driver.findElement(By.xpath("//table[@id='example']/tbody/tr["+i+"]/td
[1]"));
        //this will click on the name, so that the salary row will
be visible
        nameEle.click();
        //passing the Salary in to an WebElement
        WebElement
salEle=driver.findElement(By.xpath("(//table[@id='example']/tbody/tr["+j+"]/td
[1]/descendant::span)[2]"));
        //getting the Salary
        String salary=salEle.getText().trim().replace("$",
"".replace(",", ""));
        //adding to the Total by converting the Salary in to
Integer
        total=total+Integer.parseInt(salary);
        nameEle.click();
    }
    System.out.println("Total of Salary in Page 1 = "+total);
    Thread.sleep(3000);
    driver.quit();
}
}

```

1.2 Output:

```

Number of Rows from the table in page 1 - 10
Number of Columns from the table in page 1 - 6
Total of Salary in Page 1 = 3008160

```

1.3 Output Screenshots:

DataTables | Table plug-in for jQuery

https://datatables.net

DataTables Editor Manual Download Login / Register Search

Add advanced interaction controls to your HTML tables *the free & easy way*

- 1 - Include these two files
 - CSS `//cdn.datatables.net/1.10.19/css/jquery.dataTables.min.css`
 - JS `//cdn.datatables.net/1.10.19/js/jquery.dataTables.min.js`
- 2 - Call this single function


```
$(document).ready(function () {
  $('#myTable').DataTable();
});
```
- 3 - You get a fully interactive table →

Full Getting Started Guide

Name	Position	Office	Age	Start date
Airi Satou	Accountant	Tokyo	33	2008/11/28
Angelica Ramos	Chief Executive Officer (CEO)	London	47	2009/10/09
Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12
Bradley Greer	Software Engineer	London	41	2012/10/13
Brenden Wagner	Software Engineer	San Francisco	28	2011/06/07
Brielle Williamson	Integration Specialist	New York	61	2012/12/02
Bruno Nash	Software Engineer	London	38	2011/05/03
Caesar Vance	Pre-Sales Support	New York	21	2011/12/12
Cara Stevens	Sales Assistant	New York	46	2011/12/06
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29

EclipseWorkspace - selenium-webdriver-config/src/seleniumpackage/Table.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- src
 - AgeException
 - Collection
 - Even
 - HighestNumber
 - Operators
 - PatternX
 - PrintingX
 - SamplePrj
 - selenium-webdriver-config
 - JRE System Library [JavaSE-10]
 - src
 - (default package)
 - seleniumpackage
 - ActionClass.java
 - Alert.java
 - Cleartrip.java
 - DriverConfig.java
 - FrameClass.java
 - IEDriverConfig.java
 - MagentoRegistration.java
 - SeleniumTestClass.java
 - Specie.java
 - Table.java
 - WindowHan.java
 - Referenced Libraries
 - settings
 - chromedriver.exe
 - geckodriver.exe
 - IEDriverServer.exe
 - classpath
 - project
 - SetGet
 - Shape
 - SumOfTwo
 - SuperDemo
 - Test
 - Timer

Table.java

```

1 import java.util.concurrent.TimeUnit;
2 import java.util.concurrent.TimeoutException;
3
4 import org.openqa.selenium.By;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.WebElement;
7 import org.openqa.selenium.firefox.FirefoxDriver;
8
9 public class Table {
10
11     public static void main(String[] args) throws InterruptedException {
12
13         // TODO Auto-generated method stub
14         System.setProperty("webdriver.gecko.driver", "./Drivers/geckodriver.exe");
15         //loads the Firefox Driver
16         WebDriver driver = new FirefoxDriver();
17         //Opens http://datatables.net page
18         driver.get("http://datatables.net");
19         driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
20         driver.manage().window().maximize();
21         //taking the list of rows from the table in the page
22         List rowList = driver.findElements(By.xpath("//table[@id='example']/tbody/tr"));
23         //Finding the no. of rows
24     }
25 }

```

Problems Javadoc Declaration Console

```

terminated> Table [Java Application] C:\Program Files\Java\jdk-11.0.1\bin\javaw.exe (Nov 30, 2018 4:06:39 PM)
1543574202610 mozrunner:runner INFO Running command: "C:\Program Files\Mozilla Firefox\firefox.exe" "-marionette" "-foreground" "-no-remote"
1543574208238 Marionette INFO Listening on port 50472
1543574208730 Marionette WARN TLS certificate errors will be ignored for this session
Nov 30, 2018 4:06:48 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: WC3
Number of Rows from the table in page 1 - 10
Number of Columns from the table in page 1 - 6
Total of Salary in Page 1 = 3008160
1543574222030 Marionette INFO Stopped listening on port 50472
[Child 13876, Chrome_ChildThread] WARNING: pipe error: 109: file z:/build/build/src/ipc/chromium/src/chrome/common/ipc_channel_win.cc, line 346
[Child 12648, Chrome_ChildThread] WARNING: pipe error: 109: file z:/build/build/src/ipc/chromium/src/chrome/common/ipc_channel_win.cc, line 346
[Child 12648, Chrome_ChildThread] WARNING: pipe error: 109: file z:/build/build/src/ipc/chromium/src/chrome/common/ipc_channel_win.cc, line 346
[Parent 15544, Gecko_IOThread] WARNING: pipe error: 109: file z:/build/build/src/ipc/chromium/src/chrome/common/ipc_channel_win.cc, line 346
[Child 16368, Chrome_ChildThread] WARNING: pipe error: 109: file z:/build/build/src/ipc/chromium/src/chrome/common/ipc_channel_win.cc, line 346
[Parent 15544, Gecko_IOThread] WARNING: pipe error: 109: file z:/build/build/src/ipc/chromium/src/base/process_util_win.cc, line 188
#### [Child][RunMessage] Error: Channel closing: too late to send/recvd, messages will be lost

```

2. Problem Statement:

Task:

- 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.

2.1 Source Code: file name – amazon.java

```
package seleniumpackage;

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.firefox.FirefoxDriver;

public class amazon {

    public static void main(String[] args) {

        System.setProperty("webdriver.gecko.driver",
"./Drivers/geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(30,TimeUnit.SECONDS);
        //navigating to AMAZON page from the driver
        driver.navigate().to("http://amazon.in");
        //passing the search Textbox to the webelement
        WebElement
searchTxtEle=driver.findElement(By.xpath("//input[@id='twotabsearchtextbox']")
);
        searchTxtEle.click();
        //passing the text "laptops" to searchbox
        searchTxtEle.sendKeys("laptops");
        Thread.sleep(3000);
        //finding the search click and passing to webelement
        WebElement searchEle
=driver.findElement(By.xpath("(//input[@type='submit'])[1]"));
        searchEle.click();
        //getting the list of elements with tagname = a
        List<WebElement> linksEle=driver.findElements(By.tagName("a"));
        //getting the total no of links available
        int noOfLinks=linksEle.size();

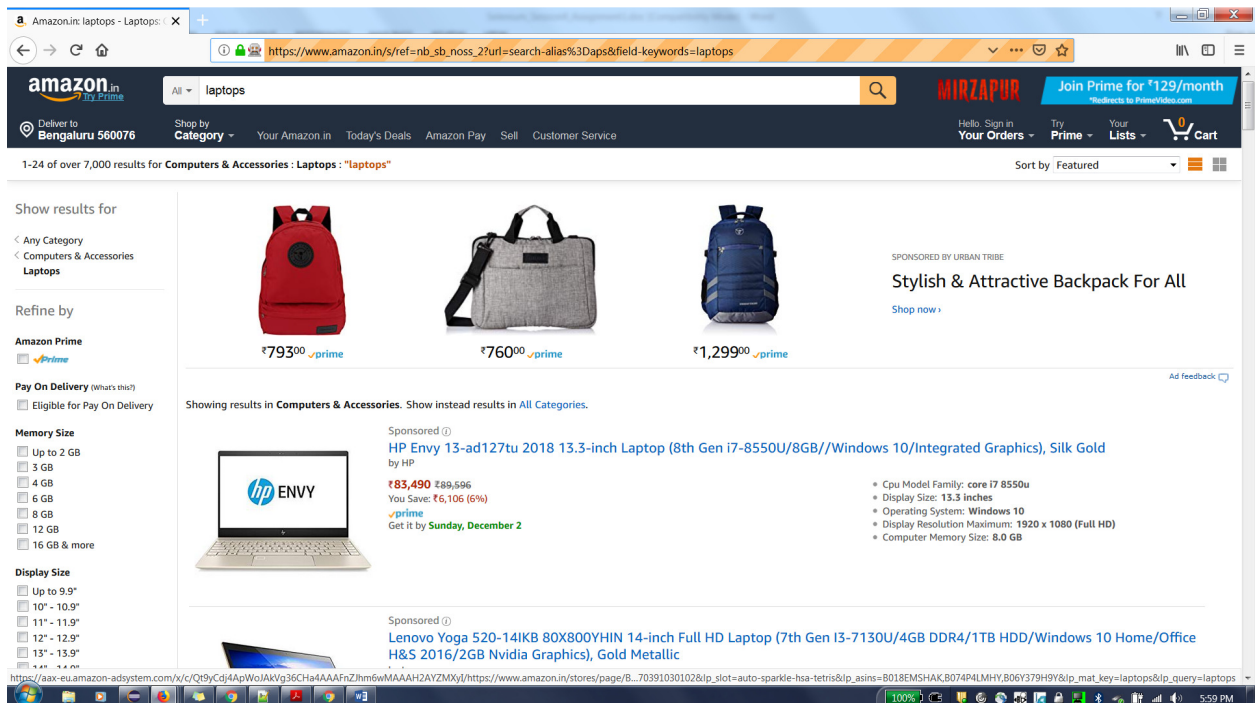
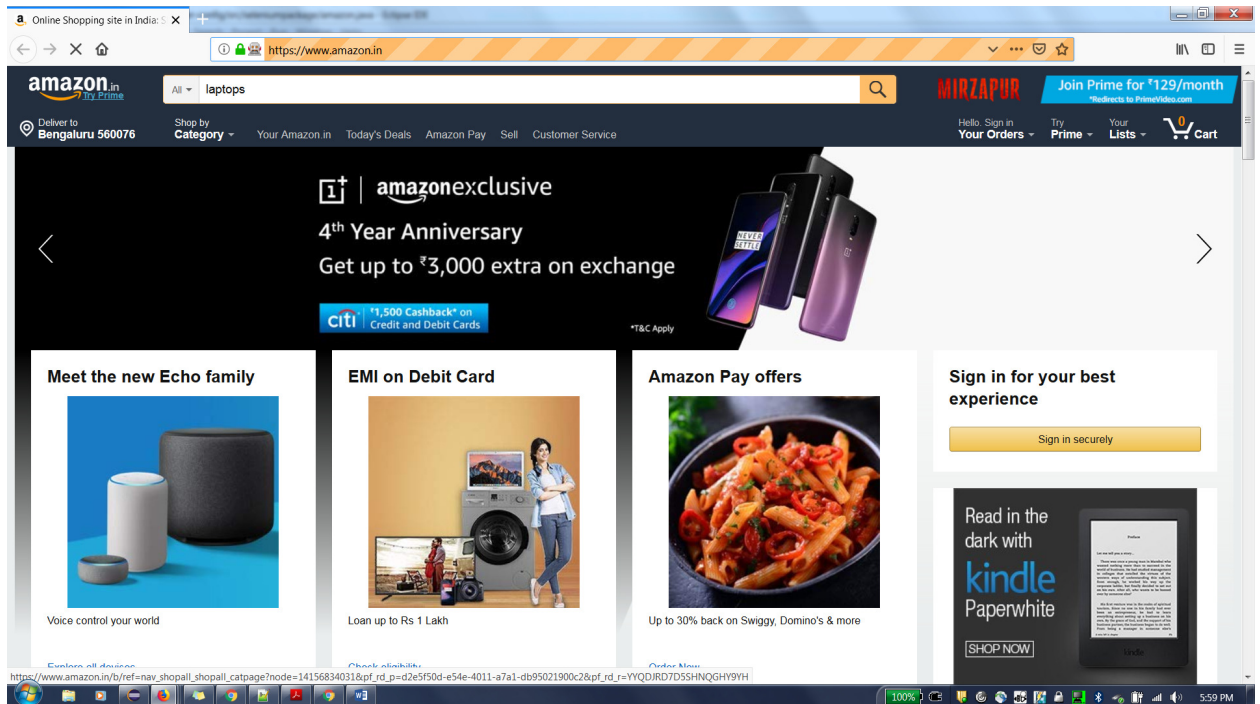
        System.out.println("Total number of links in the page -
"+noOfLinks);
        //loop for printing the links and text
        for(int i=0;i<noOfLinks;i++)
        {
            WebElement linkEle= linksEle.get(i);

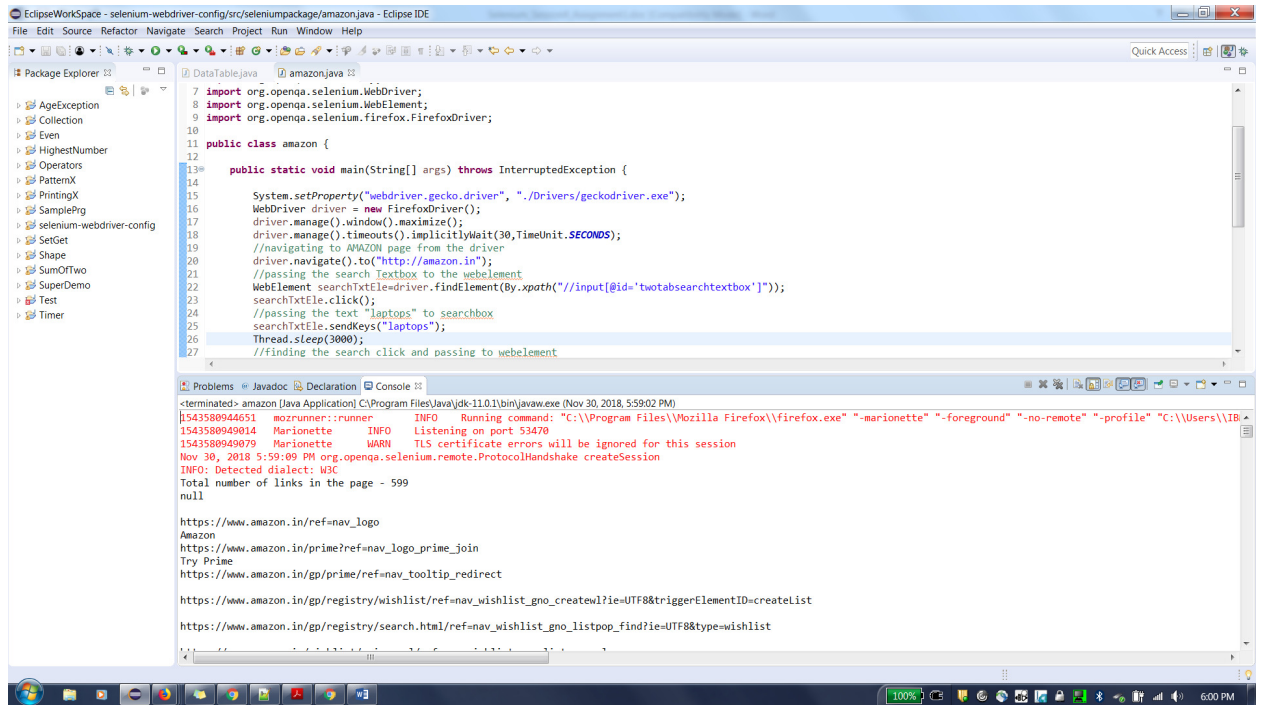
            String link=linkEle.getAttribute("href");
            System.out.println(link);

            String text= linkEle.getText();
            System.out.println(text);

        }
    }
}
```

2.2 Output Screenshots:





****END OF DOCUMENT****