DAY 2 PROJECT TEST

Task1:

- Please try to configure Chrome Browser or firefox browser and navigate to
  https://datatables.net/

- Select 50 entries per page using the drop down. Now you will get 2 pages.

- Get the list of employee name in the page 1 and page 2, whose age is greater than or equal to
  50 and salary is greater than or equal to $200,000

- Print the name in the console.

Solution:

```java
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.Select;
import org.openqa.selenium.support.ui.WebDriverWait;

public class DataTableSalary {
    public static void main(String[] args){
        //About the program
        System.out.println("This program will get employee name whose age is
>=50 and salary >= 200000 in the all pages");
        //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);
        //To choose 50 from show entries list
        WebElement
showEle=chrdriver.findElement(By.xpath("//select[@name='example_length']"));
        Select showddEle=new Select(showEle);
        showddEle.selectByValue("50");
        //To check the condition in first page
        for(int i=1;i<=(50*2);i++){
            //To get the salary of the employee expand the name
```

```java
                WebElement
nameEle=chrdriver.findElement(By.xpath("//table[@id='example']/tbody/tr["+i+"]/td[1]"
));
                nameEle.click();
                //To get the name of the employee
                String empName=nameEle.getText();
                //To check the age is greater than or equal to 50
                WebElement
ageEle=chrdriver.findElement(By.xpath("//table[@id='example']/tbody/tr["+i+"]/td[4]")
);
                String ageVal=ageEle.getText();
                int empAge=Integer.parseInt(ageVal);
                //To expand the name and get salary value
                WebElement salaryEle=
chrdriver.findElement(By.xpath("//table[@id='example']/tbody/tr["+(i+1)+"]/td[1]"));
                String
empSal=salaryEle.getText().trim().replace("Salary","").replace("
","").replace("$","").replace(",","");
                int empSalVal=Integer.parseInt(empSal);
                //To apply the condition and to get the employee name
                if(empAge>=50 && empSalVal>=200000){
                        System.out.println(empName+" Age is "+empAge+" and Salary
is "+empSalVal);
                }
                i++;
            }
        System.out.println("This is the end of the program");
        }
}
```

Task2:

Please launch https://www.moneycontrol.com/

Click on Stocks links (Highlighted near Signup)

It will list Stock Price Quotes List with Company Name

Get all the links and link text of the company under the list of Alphabet 'A' and print it in the console

Assert the title using TestNG Assertion after clicking on 'Ashok Leyland' in the table of company name

Expected Title of the Ashok Leyland page

Ashok Leyland Ltd. Stock Price, Share Price, Live BSE/NSE, Ashok Leyland Ltd. Bids Offers. Buy/Sell Ashok Leyland Ltd. news & tips, & F&O Quotes, NSE/BSE Forecast News and Live Quotes

Solution:

```java
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.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;

public class MoneyControlTest {
    public static void main(String[] args) throws InterruptedException{
        //About the program
        System.out.println("This program will check all the links under the
money control table");
        //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.moneycontrol.com/");
        Thread.sleep(1000);
        //To click the Stocks link
        chrdriver.findElement(By.linkText("Stocks")).click();
```

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```java
            Thread.sleep(1000);
            //To click the Stock listed under alphabet A
            chrdriver.findElement(By.linkText("A")).click();
            //To find the no.of links in the Comany Name table
            List<WebElement> companyNameEle =
chrdriver.findElements(By.xpath("//*[@class='pcq_tbl MT10']/descendant::a"));
            int cmpnameLinks = companyNameEle.size();
            System.out.println(cmpnameLinks);
            //To print the links
            for(int i=0;i<cmpnameLinks;i++)
            {
                    WebElement linkEle= companyNameEle.get(i);
                    String link=linkEle.getAttribute("href");
                    System.out.println(link);
                    String text= linkEle.getText();
                    System.out.println(text);
            }
            //To click the AshokLeyland company name link
            chrdriver.findElement(By.linkText("Ashok Leyland")).click();
            Thread.sleep(5000);

        wait.until(ExpectedConditions.presenceOfElementLocated(By.xpath("//h1[contains
    (@class,'company_name')]")));
            String actualTitle = chrdriver.getTitle();
            String expectedTitle="Ashok Leyland Ltd. Stock Price, Share Price, Live
BSE/NSE, Ashok Leyland Ltd. Bids Offers. Buy/Sell Ashok Leyland Ltd. news & tips, &
F&O Quotes, NSE/BSE Forecast News and Live Quotes";
            System.out.println("Actual Title is: "+actualTitle);
            Assert.assertEquals(actualTitle, expectedTitle,"Title check for Ashok
    Leyland");
            System.out.println("This is the end of the program");
        }

}
```