**package** Patil;

**import** java.util.Iterator;

**import** java.util.List;

**import** java.util.Set;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.interactions.Actions;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** AutomationDriver {

**public** **static** **void** main(String[] args) **throws** InterruptedException

{

System.*setProperty*("webdriver.chrome.driver", "C:\\work\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

driver.get("https://rahulshettyacademy.com/AutomationPractice/"); //hit the url

driver.manage().window().maximize();

AutomationDriver.*exercise1*(driver);

AutomationDriver.*exercise2*(driver);

AutomationDriver.*exercise3*(driver);

AutomationDriver.*exercise4*(driver);

AutomationDriver.*exercise5*(driver);

AutomationDriver.*exercise6*(driver);

AutomationDriver.*exercise7*(driver);

AutomationDriver.*exercise8*(driver);

AutomationDriver.*exercise9*(driver);

}

**public** **static** **void** exercise1(WebDriver driver) **throws** InterruptedException

{

driver.findElement(By.*cssSelector*("input[value='radio1']")).click(); // first radio button is clicked

System.***out***.println(driver.findElement(By.*cssSelector*("input[value='radio1']")).isSelected());

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("input[value='radio2']")).click(); //second radio button is clicked

System.***out***.println(driver.findElement(By.*cssSelector*("input[value='radio2']")).isSelected());

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("input[value='radio3']")).click(); //third radio button is clicked

System.***out***.println(driver.findElement(By.*cssSelector*("input[value='radio3']")).isSelected());

}

**public** **static** **void** exercise2(WebDriver driver) **throws** InterruptedException

{

driver.findElement(By.*id*("autocomplete")).sendKeys("United States");

Thread.*sleep*(3000);

List<WebElement> options =driver.findElements(By.*cssSelector*("li[class='ui-menu-item'] div"));//css parent child realtionship it identify the all the options

**for**( WebElement option :options)//get me each option at a time //options means list of web options

{

**if**(option.getText().equalsIgnoreCase("United States Minor Outlying Islands"))//if its matches click the button

{

option.click();

**break**;

}

}

}

**public** **static** **void** exercise3(WebDriver driver) **throws** InterruptedException

{

WebElement staticdropdown=driver.findElement(By.*id*("dropdown-class-example" ));// to address of the web element

Select dropdown=**new** Select(staticdropdown);//object creation

dropdown.selectByIndex(1); //for selecting index number 1

System.***out***.println(dropdown.getFirstSelectedOption().getText());

dropdown.selectByIndex(2); //for selecting index number 2

System.***out***.println(dropdown.getFirstSelectedOption().getText());

dropdown.selectByIndex(3); //for selecting index number 3

System.***out***.println(dropdown.getFirstSelectedOption().getText());

}

**public** **static** **void** exercise4(WebDriver driver) **throws** InterruptedException

{

driver.findElement(By.*id*("checkBoxOption1")).click();// to click the check box

System.***out***.println( driver.findElement(By.*id*("checkBoxOption1")).isSelected());//displays the checkbox is checked

driver.findElement(By.*id*("checkBoxOption1")).click();

Thread.*sleep*(2000);

System.***out***.println( driver.findElement(By.*id*("checkBoxOption1")).isSelected());//displays the checkbox is unchecked

Thread.*sleep*(2000);

//second check box

driver.findElement(By.*id*("checkBoxOption2")).click();//click the check box

System.***out***.println( driver.findElement(By.*id*("checkBoxOption2")).isSelected());//displays the checkbox is checked

driver.findElement(By.*id*("checkBoxOption2")).click();

Thread.*sleep*(2000);

System.***out***.println( driver.findElement(By.*id*("checkBoxOption2")).isSelected());//displays the checkbox is unchecked

Thread.*sleep*(2000);

// third check box

driver.findElement(By.*id*("checkBoxOption3")).click();//click the check box

System.***out***.println( driver.findElement(By.*id*("checkBoxOption3")).isSelected());//it display the check box is checked

driver.findElement(By.*id*("checkBoxOption3")).click();

Thread.*sleep*(2000);

System.***out***.println( driver.findElement(By.*id*("checkBoxOption3")).isSelected());//it display the check box is unchecked

}

**public** **static** **void** exerciseFourPointOne(WebDriver driver) **throws** InterruptedException

{

List<WebElement>AllCheckboxes=driver.findElements(By.*xpath*("//input[@type='checkbox']"));

**int** size=AllCheckboxes.size();

System.***out***.println(size);

**int** i;

**for**( i=0;i<size;i++)

{

AllCheckboxes.get(i).click();

System.***out***.println(AllCheckboxes.get(i).isSelected());

}

}

**public** **static** **void** exerciseFourPointTwo(WebDriver driver) **throws** InterruptedException

{

Thread.*sleep*(2000);

List<WebElement>AllCheckboxes=driver.findElements(By.*xpath*("//input[@type='checkbox']"));

**int** size=AllCheckboxes.size();

System.***out***.println(size);

**int** i;

**for**( i=0;i<size;i++)

{

AllCheckboxes.get(i).click();

System.***out***.println(AllCheckboxes.get(i).isSelected());

}

}

**public** **static** **void** exercise5(WebDriver driver) **throws** InterruptedException

{

driver.findElement(By.*id*("openwindow")).click();//it is an child window form parent

Set<String> windows = driver.getWindowHandles(); //[parentid,childid,subchildId] it grab the id in the all window opened

Iterator<String>it = windows.iterator();// access the ids

String parentId = it.next();//to get the ids

String childId = it.next();

driver.switchTo().window(childId);//switch to child window

System.***out***.println(driver.getTitle());

driver.close(); //closes current browser

Thread.*sleep*(2000);

driver.switchTo().window(parentId);//switch to child window

System.***out***.println(driver.getTitle());

}

**public** **static** **void** exercise6(WebDriver driver) **throws** InterruptedException

{

driver.findElement(By.*id*("opentab")).click();//it is an child window form parent

Set<String> windows = driver.getWindowHandles(); //[parentid,childid,subchildId] it takes the ids in the all window opened

Iterator<String>it = windows.iterator();// access the ids

String parentId = it.next();//to get the ids

String childId = it.next();

driver.switchTo().window(childId);//switch to new

System.***out***.println(driver.getTitle()); //validate if your page title is correct

Thread.*sleep*(2000);

driver.close(); //closes current browser

Thread.*sleep*(2000);

driver.switchTo().window(parentId);//switch to child window

System.***out***.println(driver.getTitle()); //validate if your page title is correct

}

**public** **static** **void** exercise7(WebDriver driver) **throws** InterruptedException

{

String text="Aishwarya Patil"; //shows the name with a pop up message

driver.findElement(By.*id*("name")).sendKeys(text); //to get id by name

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("[id='alertbtn']")).click();

System.***out***.println(driver.switchTo().alert().getText());

Thread.*sleep*(2000);

driver.switchTo().alert().accept();

}

**public** **static** **void** exercise8(WebDriver driver) **throws** InterruptedException

{

JavascriptExecutor js =(JavascriptExecutor)driver;//creating javascriptExecutor object to tell selenium to run java code

js.executeScript("window.scrollBy(0,600)");//windows movement

Thread.*sleep*(500);

//Verify that rows in the table

WebElement table=driver.findElement(By.*id*("product"));

List<WebElement> secondrow=table.findElements(By.*tagName*("tr")).get(0).findElements(By.*tagName*("th"));

System.***out***.println(secondrow.get(0).getText());

System.***out***.println(secondrow.get(1).getText());

System.***out***.println(secondrow.get(2).getText());

}

**public** **static** **void** exercise9(WebDriver driver) **throws** InterruptedException

{

Thread.*sleep*(2000);

JavascriptExecutor js=(JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,500)");

Thread.*sleep*(3000);

Actions a=**new** Actions(driver); // we have to create a class

Thread.*sleep*(3000);

a.moveToElement(driver.findElement(By.*xpath*("//button[@id='mousehover']"))).click().build().perform(); //to get the link using xpath

Thread.*sleep*(3000);

a.moveToElement(driver.findElement(By.*tagName*("a"))).click().build().perform();

}

}