Selinium Program:

Project name: SeliniumPractice

**package** practice;

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

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

**public** **class** ChromeExample {

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.chrome.driver",

"D:\\software\\chromedriver.exe");

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

driver.get("http://www.leafground.com/pages/checkbox.html");

driver.navigate().to("https://www.w3schools.com/tags/att\_input\_type\_r adio.asp");

driver.navigate().back();

driver.navigate().forward();

driver.close();

}

}

**package** practice;

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

**import** org.openqa.selenium.firefox.FirefoxDriver;

**public** **class** FirfoxExample {

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.gecko.driver","D:\\software\\geckosoft\\geckodriver.exe");

WebDriver driver11 = **new** FirefoxDriver();

driver11.get("http://www.leafground.com");

driver11.close();

}

}

**package** practice;

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

**import** org.openqa.selenium.ie.InternetExplorerDriver;

**public** **class** IeExample {

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.ie.driver",

"D:\\software\\ie\\IEDriverServer.exe");

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

driver.get("http://www.leafground.com/pages/checkbox.html");

}

}

**package** practice;

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

**import** org.openqa.selenium.Keys;

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

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

**import** org.openqa.selenium.firefox.FirefoxDriver;

**public** **class** OpenGooglev3 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

System.*setProperty*("webdriver.gecko.driver","D:\\software\\geckosoft\\geckodriver.exe");

WebDriver driver11 = **new** FirefoxDriver();

driver11.get("http://www.google.co.in");

//WebElement googleTextbox = driver11.findElement(By.name("q")); or

WebElement googleTextbox = driver11.findElement(By.*xpath*("//input[@type='text']"));

googleTextbox.sendKeys("automation testing"+Keys.***ENTER***);

}

}

**package** practice;

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

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

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

**import** org.openqa.selenium.firefox.FirefoxDriver;

**public** **class** LinkExamplev4 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

System.*setProperty*("webdriver.gecko.driver","D:\\software\\geckosoft\\geckodriver.exe");

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

driver.get("http://www.leafground.com/pages/Link.html");

WebElement linktxt = driver.findElement(By.*linkText*("Go to Home Page"));

linktxt.click();

driver.get("http://www.leafground.com/pages/Link.html");

WebElement linkptxt = driver.findElement(By.*partialLinkText*("Home Page"));

linkptxt.click();

}

}

**package** practice;

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

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

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

**import** org.openqa.selenium.firefox.FirefoxDriver;

**public** **class** TextboxExamplev5 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

System.*setProperty*("webdriver.gecko.driver","D:\\software\\geckosoft\\geckodriver.exe");

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

driver.get("http://www.leafground.com/pages/Edit.html");

WebElement emailBox = driver.findElement(By.*id*("email"));

emailBox.sendKeys("varshfoods@gmail.com");

WebElement appendText = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[2]/div/div/input"));

appendText.sendKeys("varshfoods");

WebElement getDefaultText = driver.findElement(By.*name*("username"));

String defaultValue = getDefaultText.getAttribute("value");

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

WebElement editboxClear = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[4]/div/div/input"));

editboxClear.clear();

WebElement editboxStatus = driver.findElement(By.*xpath*("/html/body/div/div/div[3]/section/div[5]/div/div/input"));

Boolean editStatus = editboxStatus.isEnabled();

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

}

}

package practice;

import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.Point;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class ButtonExamplev6 {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","D://software//chromedriver.exe");

ChromeDriver driver = new ChromeDriver();

driver.get("http://www.leafground.com/pages/Button.html");

WebElement buttonPosition = driver.findElement(By.id("position"));

//int x = buttonPosition.getLocation().getX();

//int y = buttonPosition.getLocation().getY();

Point pointXY = buttonPosition.getLocation();

int x = pointXY.getX();

int y = pointXY.getY();

System.out.println("x:"+x+" y:"+y);

WebElement buttonColor = driver.findElement(By.id("color"));

String colorValue = buttonColor.getCssValue("background-color");

System.out.println(colorValue);

WebElement buttonSize = driver.findElement(By.id("size"));

Dimension bs = buttonSize.getSize();

int heightValue= bs.getHeight();

int widthValue= bs.getWidth();

System.out.println("Height:"+heightValue+" widtht:"+widthValue);

}

}

package practice;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

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

public class DropdownExamplev7 {

public static void main(String[] args) {

System.setProperty("webdriver.gecko.driver","D:\\software\\geckosoft\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.get("http://www.leafground.com/pages/Dropdown.html");

WebElement firstDropdown = driver.findElement(By.id("dropdown1"));

Select select1 = new Select(firstDropdown);

select1.selectByIndex(1);

select1.selectByValue("3");

select1.selectByVisibleText("UFT/QTP");

firstDropdown.sendKeys("Loadrunner");

WebElement secondDropdown = driver.findElement(By.name("dropdown2"));

Select select2 = new Select(secondDropdown);

select2.selectByVisibleText("Appium");

WebElement thirdDropdown = driver.findElement(By.id("dropdown3"));

Select select3 = new Select(thirdDropdown);

select3.selectByValue("3");

WebElement fourthDropdown = driver.findElement(By.className("dropdown"));

Select select4 = new Select(fourthDropdown);

List <WebElement> optionValue = select4.getOptions();

int dropDownSize = optionValue.size();

System.out.println(dropDownSize);

WebElement fifthDropdown = driver.findElement(By.xpath("/html/body/div/div/div[3]/section/div[5]/select"));

fifthDropdown.sendKeys("Loadrunner");

WebElement sixthDropdown = driver.findElement(By.xpath("/html/body/div/div/div[3]/section/div[6]/select"));

Select select6 = new Select(sixthDropdown);

select6.selectByIndex(1);

select6.selectByIndex(3);

}

}

**package** practice;

**import** org.openqa.selenium.Alert;

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

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

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

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

**public** **class** AlertExample8 {

**public** **static** **void** main(String[] args) {

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

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

driver.get("http://www.leafground.com/pages/Alert.html");

WebElement alertBox1 = driver.findElement(By.*xpath*("//\*[@id='contentblock']/section/div[1]/div/div/button"));

alertBox1.click();

Alert alertInform = driver.switchTo().alert();

alertInform.accept();

WebElement alertBox2 = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[2]/div/div/button"));

alertBox2.click();

Alert alertConfirm= driver.switchTo().alert();

alertConfirm.dismiss();

WebElement alertBox3 = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[3]/div/div/button"));

alertBox3.click();

Alert alertPrompt= driver.switchTo().alert();

alertPrompt.sendKeys("Vinayagar");

alertPrompt.accept();

}

}

**package** practice;

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

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

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

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

**public** **class** RadioButtonV9 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/radio.html");

WebElement unChecked = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[2]/div/div/label[2]/input"));

**boolean** status1 = unChecked.isSelected();

System.***out***.println("First RadioButton status: "+status1);

WebElement checked = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[2]/div/div/label[3]/input"));

**boolean** status2 = checked.isSelected();

System.***out***.println("second RadioButton status: "+status2);

WebElement below20 = driver.findElement(By.*name*("age"));

below20.click();

}

}

**package** practice;

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

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

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

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

**public** **class** CheckboxV10 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/checkbox.html");

WebElement javaCheckbox = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[1]/div[1]/input"));

javaCheckbox.click();

WebElement seliniumCheckbox = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[2]/div/input"));

**boolean** seliniumStatus = seliniumCheckbox.isSelected();

System.***out***.println("Selinium checkbox status: "+seliniumStatus);

WebElement firstCheckbox = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[3]/div[1]/input"));

**boolean** firstBoxStatus = firstCheckbox.isSelected();

**if**(firstBoxStatus) {

firstCheckbox.click();

}

WebElement secondCheckbox = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[3]/div[2]/input"));

**boolean** seconBoxStatus = secondCheckbox.isSelected();

**if**(seconBoxStatus) {

secondCheckbox.click();

}

}

}

**package** practice;

**import** java.util.Set;

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

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

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

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

**public** **class** WindowHandlingExampleV11 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/Window.html");

String oldWindow = driver.getWindowHandle();

WebElement homePageButton = driver.findElement(By.*id*("home"));

homePageButton.click(); //opens the home page in new Window, so send the control to that by below code

Set <String> handles = driver.getWindowHandles();

**for** (String newWindow : handles) {

driver.switchTo().window(newWindow);

}

WebElement editPageButton = driver.findElement(By.*xpath*("//\*[@id=\'post-153\']/div[2]/div/ul/li[1]/a/img"));

editPageButton.click();

driver.close();

driver.switchTo().window(oldWindow);

WebElement multiWindowButton = driver.findElement(By.*xpath*("//\*[@id=\'contentblock\']/section/div[2]/div/div/button"));

multiWindowButton.click();

**int** numberOfWindows=driver.getWindowHandles().size();

System.***out***.println("number of windows open: "+numberOfWindows);

WebElement donotCloseMe = driver.findElement(By.*id*("color"));

donotCloseMe.click();

Set<String> newWindowHandles = driver.getWindowHandles();

**for** (String allWindows : newWindowHandles) {

**if**(!allWindows.equals(oldWindow)) {

driver.switchTo().window(allWindows);

driver.close();

}

}

driver.quit();

}

}

------------------------------------------------------------------------------

**package** practice;

**import** java.util.List;

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

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

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

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

**public** **class** FramesExampleV12 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/frame.html");

driver.switchTo().frame(0); // There is no name to the frame, so we give zero

WebElement firstButton = driver.findElement(By.*id*("Click"));

firstButton.click();

String textValue = firstButton.getText();

//String textValue = driver.findElement(By.id("Click")).getText();

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

driver.switchTo().defaultContent();

driver.switchTo().frame(1); // Here also no name to the frame, so we give one

driver.switchTo().frame("frame2"); // Name is given to the frame as frame2

WebElement secondButton = driver.findElement(By.*id*("Click1"));

secondButton.click();

driver.switchTo().defaultContent();

List <WebElement> totalFrames = driver.findElements(By.*tagName*("iframe"));

**int** frameSize = totalFrames.size();

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

}

}

package practice;

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.interactions.Actions;

public class DragAndDropV13 {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","D:\\software\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("http://www.leafground.com/pages/drop.html");

WebElement From = driver.findElement(By.id("draggable"));

WebElement To = driver.findElement(By.id("droppable"));

Actions actions = new Actions(driver);

// actions.clickAndHold(From).moveToElement(To).release(To).build().perform();

//or

actions.dragAndDrop(From, To).build().perform();

}

}

**package** practice;

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

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

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

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

**public** **class** ToolTipV14 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/tooltip.html");

WebElement toolTipBox = driver.findElement(By.*id*("age"));

String textValue = toolTipBox.getAttribute("title");

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

}

}

**package** practice;

**import** java.util.List;

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

**import** org.openqa.selenium.Keys;

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

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

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

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

**public** **class** SelectableV15 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/selectable.html");

List<WebElement> selectable = driver.findElements(By.*xpath*("//\*[@id='selectable']/li"));

**int** selectableSize = selectable.size();

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

Actions actions = **new** Actions(driver);// if we use Actions, we must use bild(), perform()

actions.keyDown(Keys.***CONTROL***).click(selectable.get(0)).click(selectable.get(1)).

click(selectable.get(2)).build().perform();

}

}

**package** practice;

**import** java.util.List;

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

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

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

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

**public** **class** AutoCompletionV16 {

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

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/autoComplete.html");

WebElement input= driver.findElement(By.*id*("tags"));

input.sendKeys("s");

Thread.*sleep*(5000);

List<WebElement> listOtions= driver.findElements(By.*xpath*("//\*[@id='ui-id-1']/li"));

**for** (WebElement webElement : listOtions) {

**if**(webElement.getText().equals("SOAP")) {

webElement.click();

**break**;

}

}

}

}

**package** practice;

**import** java.io.File;

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

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

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

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

**public** **class** DownloadFilesv17 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

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

driver.get("http://www.leafground.com/pages/download.html");

WebElement downloadLink= driver.findElement(By.*partialLinkText*("Download Excel"));

downloadLink.click();

File fileLocations = **new** File("C:\\Users\\win 7\\Downloads");

File[] totalFiles = fileLocations.listFiles();

**for** (File file : totalFiles) {

**if**(file.getName().equals("testleaf.xlsx")) {

System.***out***.println("File is downloaded");

**break**;

}

}

}

}

package practice;

import java.awt.AWTException;

import java.awt.Robot;

import java.awt.Toolkit;

import java.awt.datatransfer.StringSelection;

import java.awt.event.KeyEvent;

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.interactions.Actions;

public class UploadFilesV18 {

public static void main(String[] args) throws AWTException, InterruptedException {

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","D:\\software\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("http://www.leafground.com/pages/upload.html");

Actions actions = new Actions(driver);

WebElement uploadButton= driver.findElement(By.name("filename"));

actions.moveToElement(uploadButton).click().build().perform(); //Then control goes to windows

String file = "C:\\Users\\win 7\\Downloads\\NewFile.txt";

Thread.sleep(10000);

StringSelection selection = new StringSelection(file);

Toolkit.getDefaultToolkit().getSystemClipboard().setContents(selection, null);

Robot robot = new Robot();

robot.keyPress(KeyEvent.VK\_CONTROL);

robot.keyPress(KeyEvent.VK\_V);

robot.keyRelease(KeyEvent.VK\_V);

robot.keyRelease(KeyEvent.VK\_CONTROL);

robot.keyPress(KeyEvent.VK\_ENTER);

robot.keyRelease(KeyEvent.VK\_ENTER);

}

}

package practice;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class ImagesExampleV19 {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","D:\\software\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("http://www.leafground.com/pages/Image.html");

WebElement imageBroken = driver.findElement(By.xpath("//\*[@id=\'contentblock\']/section/div[2]/div/div/img"));

if(imageBroken.getAttribute("naturalWidth").equals("0")) {

System.out.println("Image is broken");

}

else {

System.out.println("Image is not broken");

}

}

}

package practice;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class LinkAdavcedExampleV20 {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","D:\\software\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.navigate().to("http://www.leafground.com/pages/Link.html");

WebElement homeLink = driver.findElement(By.linkText("Go to Home Page"));

homeLink.click();

driver.navigate().back();

WebElement pageLink = driver.findElement(By.partialLinkText("Find where"));

String pageLocation = pageLink.getAttribute("href");

System.out.println("where am supposed to go "+pageLocation);

WebElement brokenLink = driver.findElement(By.partialLinkText("Verify"));

brokenLink.click();

String titleText = driver.getTitle();

if(titleText.contains("404")) {

System.out.println("Link is broken");

}

else {

System.out.println("Link is not broken");

}

driver.navigate().back();

List <WebElement> linkSize = driver.findElements(By.tagName("a"));

int countOfLinks = linkSize.size();

System.out.println("number of Links "+countOfLinks);

}

}

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class CalenderExampleV22 {

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

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","D:\\software\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.navigate().to("http://www.leafground.com/pages/Calendar.html");

WebElement calenderText = driver.findElement(By.id("datepicker"));

calenderText.click();

//calenderText.sendKeys("08/10/2020"); this is the simple method, but not proper

WebElement next = driver.findElement(By.xpath("//\*[@id='ui-datepicker-div']/div/a[2]/span"));

next.click();

Thread.sleep(1000);

WebElement dateValue = driver.findElement(By.xpath("//\*[@id='ui-datepicker-div']"+ "/table/tbody/tr[2]/td[5]/a"));

dateValue.click();

} }