1. Code to verify whether check box is checked or not in web page

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class Checkbox {

public static void main(String[] args) {

System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.get("https://www.gmail.com");

driver.findElement(By.id("Email")).sendKeys("devimarrivada@gmail.com");

driver.findElement(By.id("next")).click();

boolean ischecked;

ischecked = driver.findElement(By.id("PersistentCookie")).isSelected();

System.out.println(" CheckBox checked? : "+ischecked);

driver.close();

}

}

1. How to select items from dropbox/select box

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

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

public class Dropdown {

public static void main(String[] args) {

System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.get("https://www.facebook.com/");

Select month = new Select( driver.findElement(By.id("month")));

month.selectByVisibleText("Jan");

Select day =new Select( driver.findElement(By.id("day")));

day.selectByIndex(1);

Select year = new Select(driver.findElement(By.id("year")));

year.selectByValue("2000");

}

}

1. How to set language while opening the website

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.firefox.FirefoxProfile;

public class ChangingLanguage {

public static void main(String[] args) {

FirefoxProfile fireFoxProfile = new FirefoxProfile();

System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");

fireFoxProfile.setPreference("intl.accept\_languages", "hi");

WebDriver driver = new FirefoxDriver(fireFoxProfile);

driver.get("https://www.Google.com/");

}

}

1. Implicit wait, Explicit Wait

package sele;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Implicit {

public static void main(String[] args) {

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

WebDriver driver = new ChromeDriver();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

driver.get("https://www.irctc.co.in");

}

}

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

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

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

public class Explicit {

public static void main(String[] args) {

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

WebDriver driver = new ChromeDriver();

driver.get("http://automationpractice.com/index.php");

driver.findElement(By.id("search\_query\_top")).sendKeys("dress");

WebDriverWait wait = new WebDriverWait(driver, 10);

wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("search\_query\_top")));

//waits 10 seconds until the icon is visible

driver.findElement(By.id("search\_query\_top")).click();

driver.close();

}

}

1. Web table, Need to click on the fourth row from the table

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Table {

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

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

WebDriver driver = new ChromeDriver();

driver.get("https://en.wikipedia.org/wiki/List\_of\_universities\_and\_higher\_education\_colleges\_in\_London");

Thread.sleep(300);

//clicking on the second row of a table.

driver.findElement(By.xpath(".//\*[@id='mw-content-text']/table[1]/tbody/tr[4]/td[1]/a")).click();

Thread.sleep(300);

}

}

1. Absolute path, Relative path

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class Xpath {

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

System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.get("http://automationpractice.com/index.php?controller=authentication&back=order-slip");

driver.findElement(By.xpath(".//\*[@id='header']/div[3]/div/div/div[3]/div/a/b")).click();

Thread.sleep(300);

driver.navigate().back();

driver.findElement(By.xpath("//a[contains(@title,'View my shopping cart')]")).click();

driver.close();

}

}

1. Write code for right click in selenium

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

public class Rightclick {

public static void main(String[] args) {

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

WebDriver driver = new ChromeDriver();

driver.get("http://www.facebook.com");

Actions action = new Actions(driver);

action.contextClick(driver.findElement(By.xpath(".//\*[@id='content']/div/div/div")));

action.perform();

}

}

1. Write code for scrolling in selenium

package sele;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Scrolling {

public static void main(String[] args) {

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

WebDriver driver = new ChromeDriver();

driver.get("https://ucmo.blackboard.com/");

JavascriptExecutor jse = (JavascriptExecutor)driver;

jse.executeScript("window.scrollBy(0,250)", "");

}

}

1. Write code on how to use java script executor

package sele;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Scrolling {

public static void main(String[] args) {

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

WebDriver driver = new ChromeDriver();

driver.get("https://ucmo.blackboard.com/");

JavascriptExecutor jse = (JavascriptExecutor)driver;

jse.executeScript("window.scrollBy(0,250)", "");

}

}

1. Write code on how to use xpath in selenium

package sele;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class Xpath {

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

System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.get("http://automationpractice.com/index.php?controller=authentication&back=order-slip");

driver.findElement(By.xpath(".//\*[@id='header']/div[3]/div/div/div[3]/div/a/b")).click();

Thread.sleep(300);

driver.navigate().back();

driver.findElement(By.xpath("//a[contains(@title,'View my shopping cart')]")).click();

driver.close();

}

}

1. Write code to find out the working links

package sele;

import java.io.IOException;

import java.net.HttpURLConnection;

import java.net.URL;

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;

public class Link {

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

int workingLinks =0;

int nonWorkingLinks =0;

System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.get("http://youtube.com");

driver.get("http://facebook.com");

//storing all the existing links using tag name "a"

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

for(WebElement e : listOfLinks)

{

//getting the URl and saving in URL class

URL u = new URL(e.getAttribute("href"));

//opening each connection

HttpURLConnection urlconnection = (HttpURLConnection)u.openConnection();

urlconnection.connect();

// 200 is the Http response when links work fine

if(urlconnection.getResponseCode()==200)

{

workingLinks++; //increasing the count when link works

}

else

{

nonWorkingLinks++; //increasing the count when link fails

}

urlconnection.disconnect();

}

System.out.println("Total Number of Links: "+listOfLinks.size());

System.out.println("No of working links: "+workingLinks);

System.out.println("No of non working Links: "+nonWorkingLinks);

driver.close();

}

}

1. Write code to verify application’s login page is working or not

**package** sele;

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

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

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

**public** **class** Login {

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

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

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

driver.get("https://www.facebook.com/");

driver.findElement(By.*id*("email")).sendKeys("email.com");

driver.findElement(By.*id*("pass")).sendKeys("pswd");

driver.findElement(By.*id*("u\_0\_q")).click();

System.***out***.println("Login successful");

}

}

1. How to assign the value to text box other than send keys method?

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

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

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

**public** **class** NoSendKeys {

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

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

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

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

driver.get("http://automationpractice.com/index.php?controller=contact");

JavascriptExecutor javaex = (JavascriptExecutor)driver;

javaex.executeScript("document.getElementById('email').value='devi';");

}

}

1. What are the different ways of locating elements in selenium

By ID: IN java : driver.findElement(By.id(“element id”))

By CLASS: In Java: driver.findElement(By.ClassName(“element class”))

By NAME: In Java: driver.findElement(By.name(“element name”))

By TAGNAME: In Java: driver.findElement(By.tagName(“element html tag name”))

By CSS Selector: In Java: driver.findElement(By.cssSelector(“css selector”))

By Link: In Java: driver.findElement(By.link(“link text”))

By xPath: In Java: driver.finfElement(By.xpath(“xpath expression”))

1. Which is fastest way to identify elements in web page?

Finding elements by ID is usually going to be the fastest option, because at its root, it eventually calls down to driver.findElement(By.id), which is optimized by many browsers.

1. Installing Selenium

Step1: First we need to download the eclipse

Step2: Download the selenium Web Driver (Selenium Standalone server jar)

Step3: Download the latest version

Step4: Save the Selenium standalone server jar and link eclipse with selenium.

Step5: Open the eclipse->Create New Project-> Right click on the created Project->Build path->Configure build path-> In java Build path-> Libraries -> Add External JARS->Go to downloads and open Selenium Standalone server jar and click on Okay

1. Limitations of Selenium Web driver

We can’t test the desktop based applications.

We can test mobile applications but we need to use the Appium for that.

We can’t automate the CAPTCHA, Flash, Silverlight Components, Applet Controls, Native window dialogs.