Software Testing EPAM – ASSIGNMENT SKILL WEEK

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S12

EPAM QUESTIONS

1. **Write a selenium code for inspecting using all locators.**

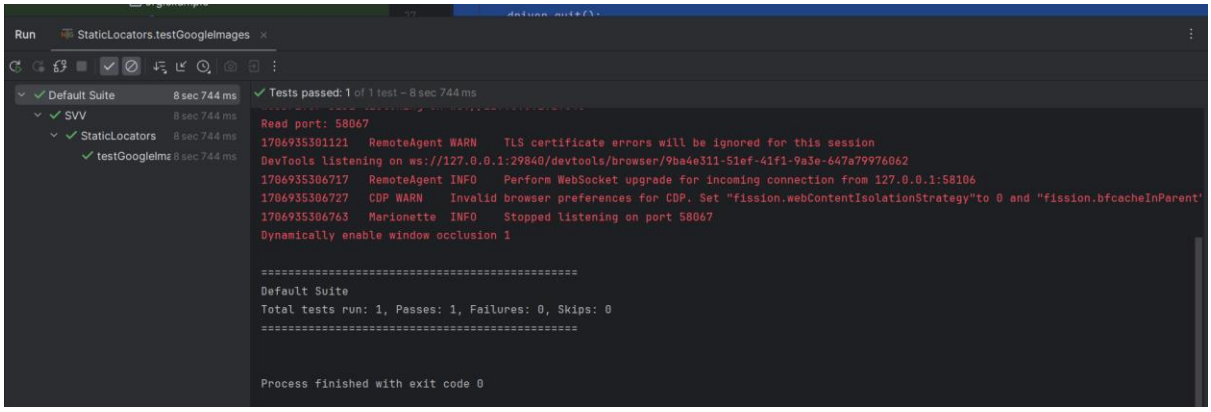
Code:

```
package org.example;

import org.testng.Assert;
import org.testng.annotations.Test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import io.github.bonigarcia.wdm.WebDriverManager;

public class StaticLocators {

    @Test
    public void testSearchGoogle() {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("https://www.google.co.in/");

        WebElement searchBox = driver.findElement(By.name("q"));
        searchBox.sendKeys("Selenium testing");
        searchBox.submit();

        WebElement results = driver.findElement(By.id("result-stats"));
        Assert.assertTrue(results.isDisplayed(), "Search results not
displayed");

        driver.quit();
    }

    @Test
    public void testGoogleLogo() {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("https://www.google.co.in/");

        WebElement logo = driver.findElement(By.className("lnXdpd"));
        Assert.assertTrue(logo.isDisplayed(), "Google logo not displayed");

        driver.quit();
    }

    @Test
    public void testGoogleImages() {
        WebDriver driver;
```

```
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        drive package org.example;

import org.testng.Assert;
import org.testng.annotations.Test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import io.github.bonigarcia.wdm.WebDriverManager;

public class StaticLocators {

    @Test
    public void testSearchGoogle() {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("https://www.google.co.in/");

        WebElement searchBox = driver.findElement(By.name("q"));
        searchBox.sendKeys("Selenium testing");
        searchBox.submit();

        WebElement results = driver.findElement(By.id("result-stats"));
        Assert.assertTrue(results.isDisplayed(), "Search results not
displayed");

        driver.quit();
    }

    @Test
    public void testGoogleLogo() {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("https://www.google.co.in/");

        WebElement logo = driver.findElement(By.className("lnXdpd"));
        Assert.assertTrue(logo.isDisplayed(), "Google logo not displayed");

        driver.quit();
    }

    @Test
    public void testGoogleImages() {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("https://www.google.co.in/");

        WebElement imagesLink = driver.findElement(By.linkText("Images"));
        imagesLink.click();

        String expectedTitle = "Google Images";
        String actualTitle = driver.getTitle();
        Assert.assertEquals(actualTitle, expectedTitle, "Not on the Google
Images page");

        driver.quit();
```

```
    }
}r.get("https://www.google.co.in/");

        WebElement imagesLink = driver.findElement(By.linkText("Images"));
        imagesLink.click();

        String expectedTitle = "Google Images";
        String actualTitle = driver.getTitle();
        Assert.assertEquals(actualTitle, expectedTitle, "Not on the Google
Images page");

        driver.quit();
    }
}
```

Output:



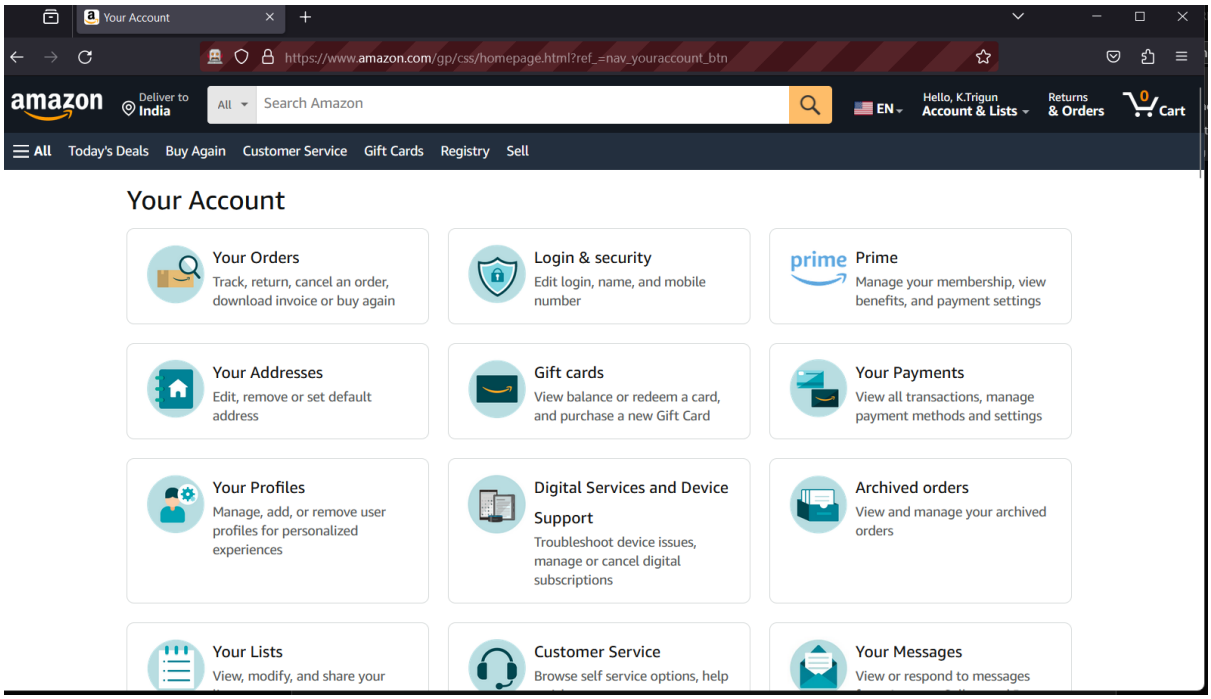
2. **Write a selenium code to login one website using credentials and logout.**

Code:

```
package Lab;

import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;

public class LmsLogin {
    public static void main(String[] args)
        {WebDriver driver;
            WebDriverManager.firefoxdriver().setup();
            driver = new FirefoxDriver();
            driver.get("https://www.amazon.com");

            WebElement signInButton = driver.findElement(By.id("nav-link-
accountList"));
            signInButton.click();

            WebElement emailField = driver.findElement(By.id("ap_email"));
            emailField.sendKeys("**********");

            WebElement continueButton =
driver.findElement(By.id("continue"));
            continueButton.click();
```

```
            WebElement passwordField =
driver.findElement(By.id("ap_password"));
            passwordField.sendKeys("*********");

            WebElement signInSubmitButton =
driver.findElement(By.id("signInSubmit"));
            signInSubmitButton.click();

            WebElement accountList = driver.findElement(By.id("nav-link-
accountList"));
            accountList.click();

            WebElement signOutButton = driver.findElement(By.id("nav-item-
signout"));
            signOutButton.click();
        }
    }
```

Output:



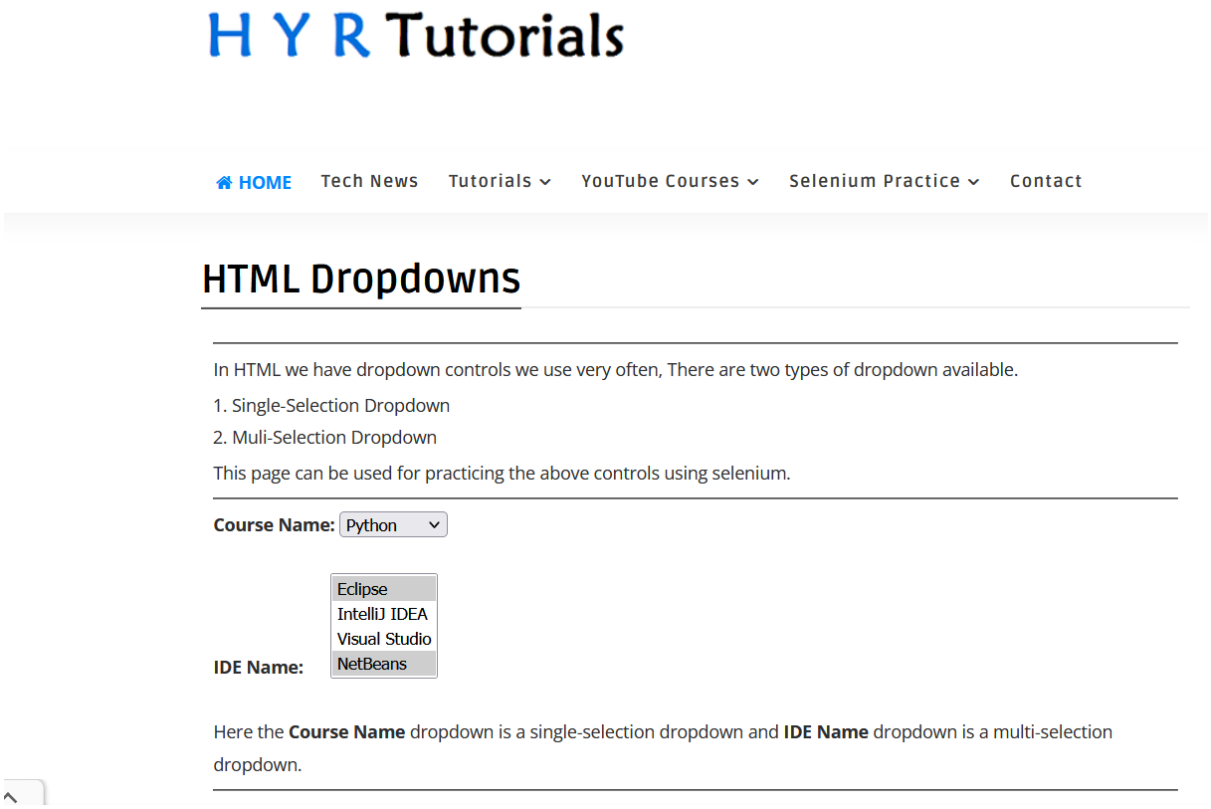
3. **Write a program to open one website and locate static dropdown box and click one option out of it.**

Code:

```
package org.example;

import io.github.bonigarcia.wdm.WebDriverManager;
import org.apache.commons.io.FileUtils;
import org.openqa.selenium.*;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.Select;
import java.io.File;
import java.io.IOException;
import java.util.List;
```

```
public class DropdownExamples {
    public static void main(String[] args) throws InterruptedException,
IOException ,Exception {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.manage().window().maximize();
        driver.get("https://www.hyrtutorials.com/p/html-dropdown-elements-
practice.html");
        Thread.sleep(2000);

        // SINGLE SELECTION DROP DOWN
        WebElement courseElement = driver.findElement(By.id("course"));
        Select courseNameDropdown = new Select(courseElement);
        List<WebElement> courseNameDropDownOptions =
courseNameDropdown.getOptions();

        for (WebElement option : courseNameDropDownOptions) {
            System.out.println(option.getText());
        }
        courseNameDropdown.selectByIndex(1);
        Thread.sleep(1000);
        courseNameDropdown.selectByVisibleText("Java");
        TakesScreenshot ts = (TakesScreenshot)driver;
        File file = ts.getScreenshotAs(OutputType.FILE);
        FileUtils.copyFile(file,new File("./Screen/Image2.png"));
        Thread.sleep(2000);
        courseNameDropdown.selectByValue("python");
        File fil = ts.getScreenshotAs(OutputType.FILE);
        FileUtils.copyFile(fil,new File("./Screen/Image3.png"));
        String selectedText =
courseNameDropdown.getFirstSelectedOption().getText();
        System.out.println("Selected visible text: " + selectedText);
        // MULTIPLE SELECTION DROP DOWN EXAMPLE
        WebElement ideElement = driver.findElement(By.id("ide"));
        Select ideDropDown = new Select(ideElement);
        List<WebElement> ideDropDownOptions = ideDropDown.getOptions();
        for (WebElement option : ideDropDownOptions) {
            System.out.println(option.getText());
        }
        ideDropDown.selectByIndex(0);
        ideDropDown.selectByValue("ij");
        ideDropDown.selectByVisibleText("NetBeans");
        ideDropDown.deselectByVisibleText("IntelliJ IDEA");
        File fi = ts.getScreenshotAs(OutputType.FILE);
        FileUtils.copyFile(fi,new File("./Screen/Image4.png"));

        List<WebElement> selectedOptions =
ideDropDown.getAllSelectedOptions();

        for (WebElement selectedOption : selectedOptions) {
            System.out.println("Selected visible text: " +
selectedOption.getText());
        }

    }
}
```

Output:



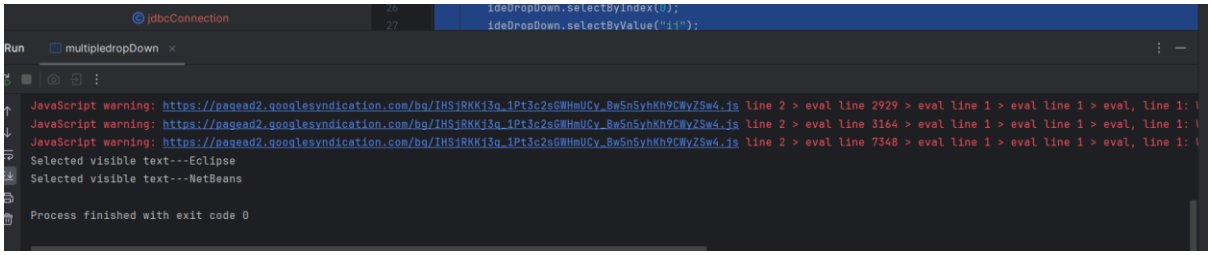
4. **Write a program to open one website and locate autosuggestion dropdown box and click one option out of it.**

Code:

```
package Lab;


import io.github.bonigarcia.wdm.WebDriverManager;
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;

import java.util.List;

public class multipledropDown {
    public static void main(String[] args) throws Exception {

        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.manage().window().maximize();
        driver.get("https://www.hyrtutorials.com/p/html-dropdown-elements-
practice.html");
        Thread.sleep(2000);

        // MULTIPLE SELECTION DROP DOWN EXAMPLE
        WebElement ideElement = driver.findElement(By.id("ide"));
        Select ideDropDown = new Select(ideElement);
        ideDropDown.selectByIndex(0);
```

```
        ideDropDown.selectByValue("ij");
        ideDropDown.selectByVisibleText("NetBeans");
        ideDropDown.deselectByVisibleText("IntelliJ IDEA");
        List<WebElement> selectedOptions =
ideDropDown.getAllSelectedOptions();
        for (WebElement selectedOption : selectedOptions) {
               System.out.println("Selected visible text---" +
selectedOption.getText());}

    }
}
```

Output:



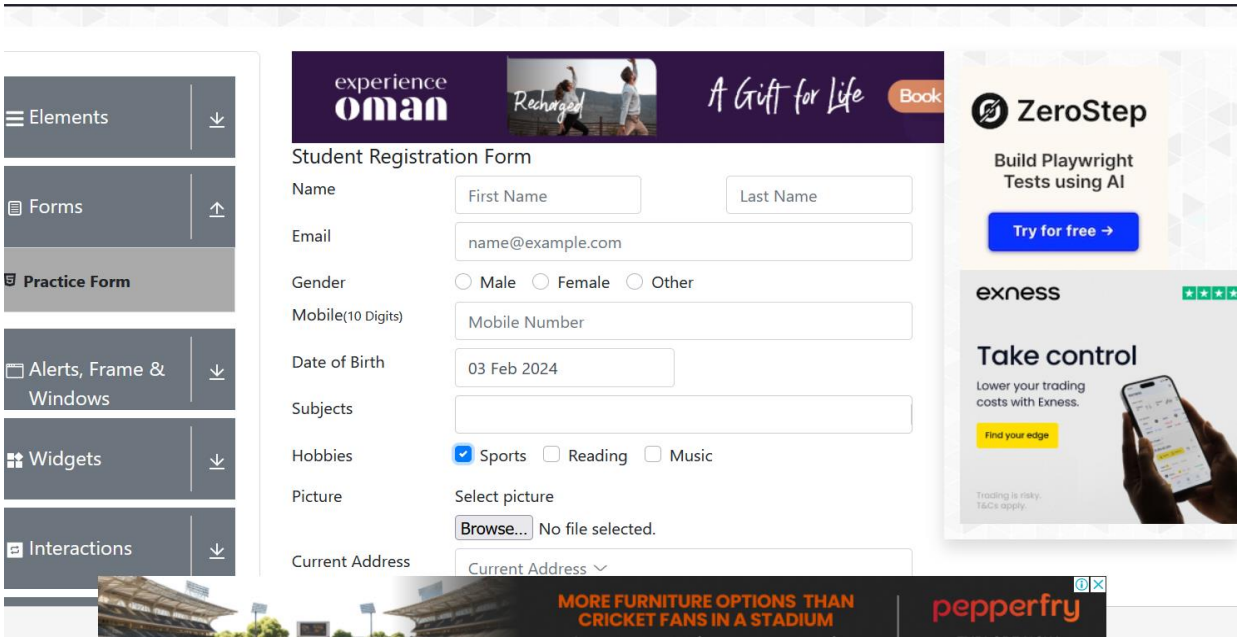
5. **Write a program to click one check box in the website and count the number of checkboxes in that site.**

   code:

```
6. package org.example;

   import io.github.bonigarcia.wdm.WebDriverManager;
   import org.junit.jupiter.api.Test;
   import org.openqa.selenium.By;
   import org.openqa.selenium.WebDriver;
   import org.openqa.selenium.WebElement;
   import org.openqa.selenium.firefox.FirefoxDriver;

   public class checkBox {
       @Test
       public void test() {
           WebDriver driver;
           WebDriverManager.firefoxdriver().setup();
           driver = new FirefoxDriver();
           driver.get("https://demoqa.com/automation-practice-form");
           driver.manage().window().maximize();

           WebElement checkBoxSelected =
   driver.findElement(By.cssSelector("label[for='hobbies-checkbox-
   1']"));
           boolean isSelected = checkBoxSelected.isSelected();
           if(!isSelected) {
               checkBoxSelected.click();
           }

           WebElement checkBoxDisplayed =
   driver.findElement(By.cssSelector("label[for='hobbies-checkbox-
   1']"));
           boolean isDisplayed = checkBoxDisplayed.isDisplayed();
           // performing click operation if element is displayed
```

```
            if (isDisplayed) {
                checkBoxDisplayed.click();
            }

            WebElement checkBoxEnabled =
    driver.findElement(By.cssSelector("label[for='hobbies-checkbox-
    1']"));
            boolean isEnabled = checkBoxEnabled.isEnabled();

            if (isEnabled) {
                checkBoxEnabled.click();
            }
        }
    }
```

Output:



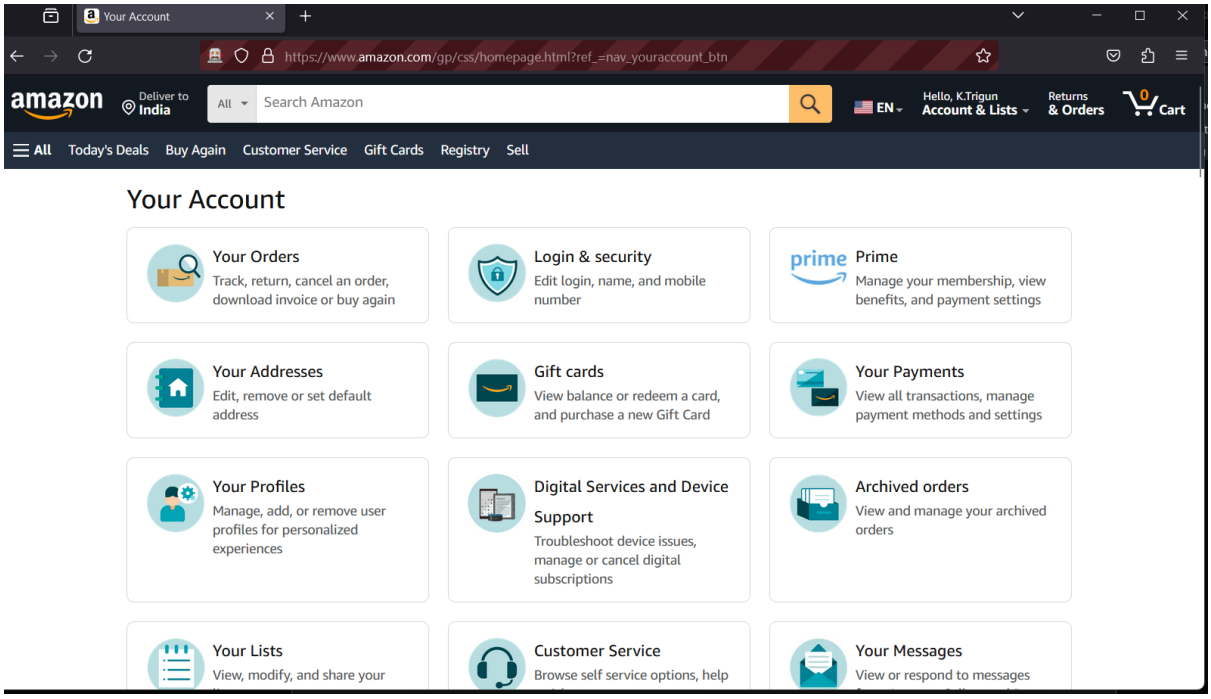
6. Write a program to do the particular action: login into website using user credential, delete the session cookie, then click any one link in the home page to experience the session logout.

Code:

```
package Lab;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;

public class amazonsignout {
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver",
"path_to_geckodriver");
        WebDriver driver = new FirefoxDriver();
        driver.get("https://www.amazon.com");
```

```
        WebElement signInLink = driver.findElement(By.id("nav-link-
accountList"));
        signInLink.click();

        WebElement emailField = driver.findElement(By.id("ap_email"));
        emailField.sendKeys("**********");

        WebElement continueButton = driver.findElement(By.id("continue"));
        continueButton.click();

        WebElement passwordField =
driver.findElement(By.id("ap_password"));
        passwordField.sendKeys("*********");

        WebElement signInButton =
driver.findElement(By.id("signInSubmit"));
        signInButton.click();

        WebElement accountListLink = driver.findElement(By.id("nav-link-
accountList"));
        accountListLink.click();

        WebElement signOutButton = driver.findElement(By.id("nav-item-
signout"));
        signOutButton.click();

        driver.manage().deleteAllCookies();

        driver.quit();
    }
}
```

Output:

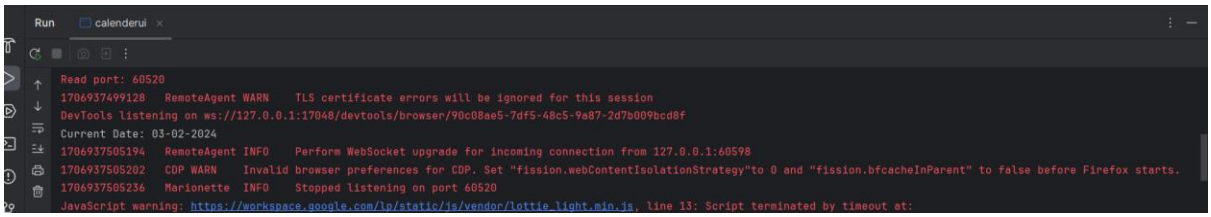


7. **Write a selenium code to select current date in the calender UI.**

Code:

```
package Lab;

import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;

public class calenderui {
    public static void main(String[] args) {
        WebDriverManager.firefoxdriver().setup();
        WebDriver driver = new FirefoxDriver();
        driver.get("https://calendar.google.com");
        WebElement currentDateElement =
driver.findElement(By.xpath("//div[contains(@class,'xY') and
contains(@class,'x1')]"));
        String currentDate = currentDateElement.getText();
        System.out.println("Current Date: " + currentDate);
        driver.quit();
    }
}
```

Output:



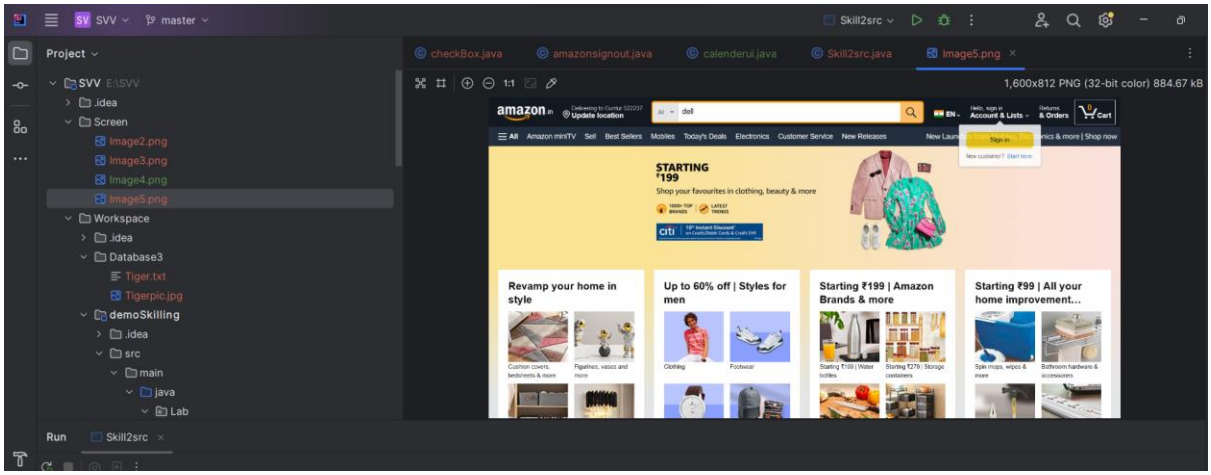
8. Write a selenium code to take screenshot of navigated web page.

Code:

```
package org.example;

import io.github.bonigarcia.wdm.WebDriverManager;
import org.apache.commons.io.FileUtils;
import org.openqa.selenium.By;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

import java.io.File;
import java.io.IOException;

public class Skill2src {

    public static void main(String[] args)throws IOException {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("https://amazon.in");
        driver.findElement(By.id("twotabsearchtextbox")).sendKeys("dell");
        driver.findElement(By.id("nav-search-submit-button")).submit();
```

```
        TakesScreenshot ts = (TakesScreenshot)driver;
        File file = ts.getScreenshotAs(OutputType.FILE);
        FileUtils.copyFile(file,new File("./Screen/Image1.png"));

    }
}
```

Output:



9. **Write a selenium code to 1. accept the alert message 2. discard the alert message**

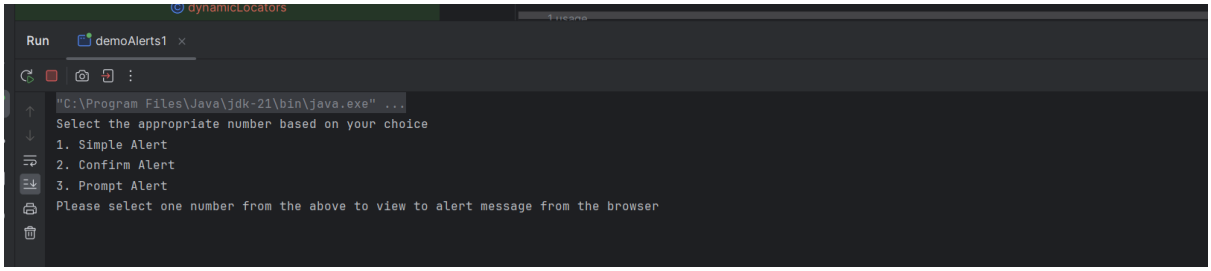
Code:

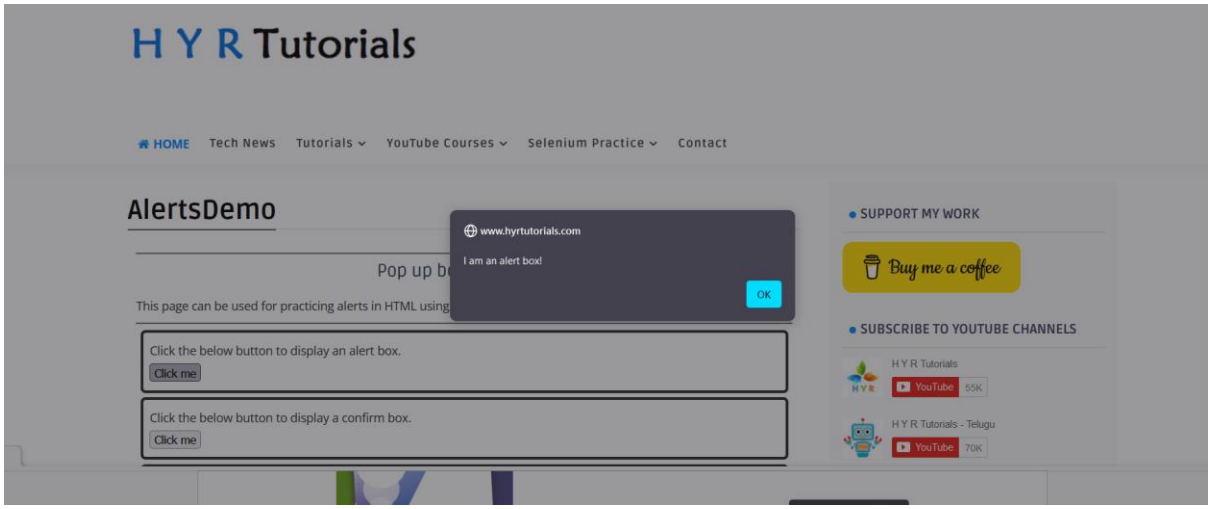
```
package Lab;

import org.openqa.selenium.By;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.*;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.Test;
import java.util.*;

public class demoAlerts1 {
    public static void main(String args[])throws Exception
    {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Select the appropriate number based on your
choice");
        System.out.println("1. Simple Alert");
        System.out.println("2. Confirm Alert");
        System.out.println("3. Prompt Alert");
        System.out.println("Please select one number from the above to view
to alert message from the browser");

        int select;
        select = scanner.nextInt();

        switch (select)
        {
            case 1:
                simplealert();
                break;
```

```
            case 2:
                confirmalert();
                break;
            case 3:
                promptalert();
                break;
            default:
                System.out.println("This is not a case that you must
select");
                break;

        }


    }


    private static  void simplealert()
    {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.manage().window().maximize();


        driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");
        driver.findElement(By.id("alertBox")).click();
        System.out.println(driver.switchTo().alert().getText());
        driver.switchTo().alert().accept();
        System.out.println(driver.findElement(By.id("output")).getText());
    }

    private static  void confirmalert() throws Exception
    {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.manage().window().maximize();

        driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");

        System.out.println(driver.findElement(By.id("output")).getText());
        Thread.sleep(2000);
        driver.findElement(By.id("confirmBox")).click();
        Thread.sleep(2000);
        System.out.println(driver.switchTo().alert().getText());
        Thread.sleep(2000);
        driver.switchTo().alert().accept();
        Thread.sleep(2000);
        System.out.println(driver.findElement(By.id("output")).getText());
        System.out.println(driver.findElement(By.id("output")).getText());
        Thread.sleep(2000);
        driver.findElement(By.id("confirmBox")).click();
        Thread.sleep(2000);
        System.out.println(driver.switchTo().alert().getText());
        Thread.sleep(2000);
        driver.switchTo().alert().dismiss();
        Thread.sleep(2000);
        System.out.println(driver.findElement(By.id("output")).getText());
```

```
    }


    private static  void promptalert() throws Exception
    {
        WebDriver driver;
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.manage().window().maximize();
        driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");

        System.out.println(driver.findElement(By.id("output")).getText());
        Thread.sleep(2000);
        driver.findElement(By.id("promptBox")).click();
        Thread.sleep(2000);
        System.out.println(driver.switchTo().alert().getText());
        Thread.sleep(2000);
        driver.switchTo().alert().sendKeys("Trigun");
        driver.switchTo().alert().accept();
        Thread.sleep(2000);
        System.out.println(driver.findElement(By.id("output")).getText());
        driver.findElement(By.id("promptBox")).click();
        System.out.println(driver.switchTo().alert().getText());
        Thread.sleep(2000);
        driver.switchTo().alert().dismiss();
        Thread.sleep(2000);
        System.out.println(driver.findElement(By.id("output")).getText());
        Thread.sleep(2000);
    }

}
```

Output:



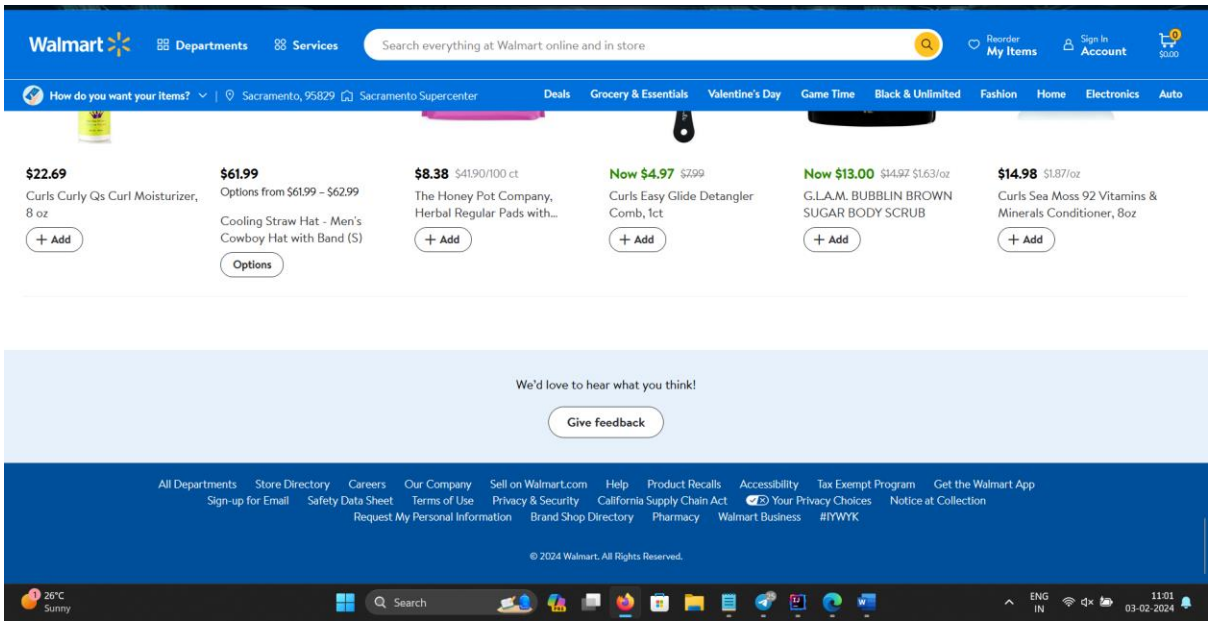


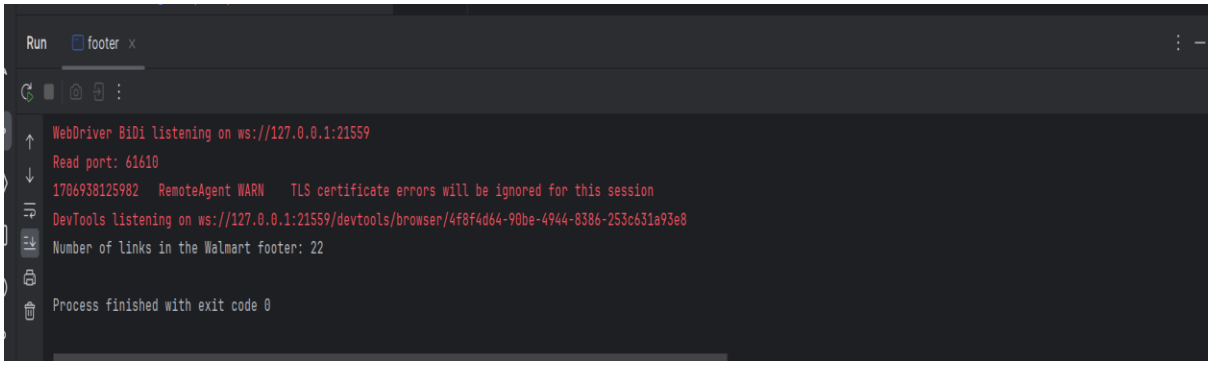
10. Write a selenium code to count the number of links in the website footer page.

Code:

```
package Lab;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import java.util.List;
import java.util.concurrent.TimeUnit;

public class footer {
    public static void main(String[] args) {
        WebDriver driver = new FirefoxDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
        driver.get("https://www.walmart.com/");
        WebElement footer = driver.findElement(By.xpath("//footer"));
        List<WebElement> footerLinks =
footer.findElements(By.tagName("a"));
        int numberOfFooterLinks = footerLinks.size();
        System.out.println("Number of links in the Walmart footer: " +
numberOfFooterLinks);
    }
}
```

Output:





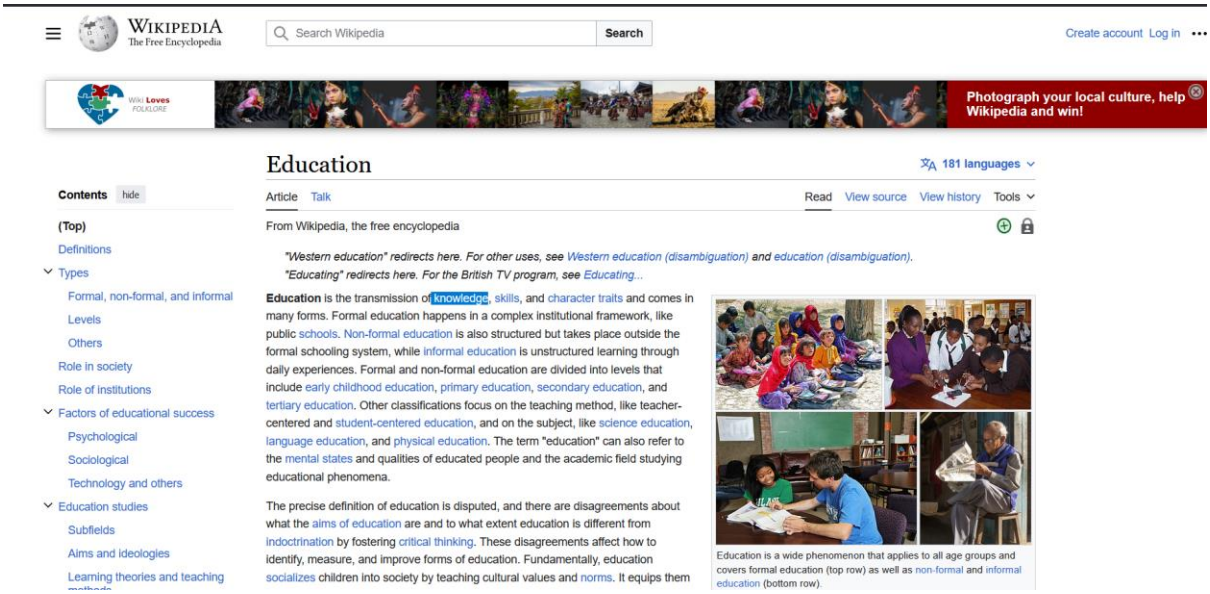
11. **Write a selenium code to extract particular word from the displayed sentence that taken from the website using appropriate automated actions.**

code:

12.
```
package Lab;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import java.util.concurrent.TimeUnit;

public class wordextract {
    public static void main(String[] args) {
        WebDriver driver = null;
        try {
            driver = new FirefoxDriver();
            driver.manage().window().maximize();
            driver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);

            driver.get("https://www.wikipedia.org/");

            WebElement searchBox =
driver.findElement(By.id("searchInput"));
            searchBox.sendKeys("education");
            searchBox.submit();

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

            WebElement paragraph =
driver.findElement(By.xpath("//div[@class='mw-parser-
output']/p[1]"));
            String text = paragraph.getText();

            String targetWord = "knowledge";

            if (text.contains(targetWord)) {
                System.out.println("Extracted word: " + targetWord);
            } else {
                System.out.println("The word \"" + targetWord + "\"
is not found in the sentence.");
            }
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            if (driver != null) {
```

```
                    driver.quit();
                }
            }
        }
    }
```

Output:



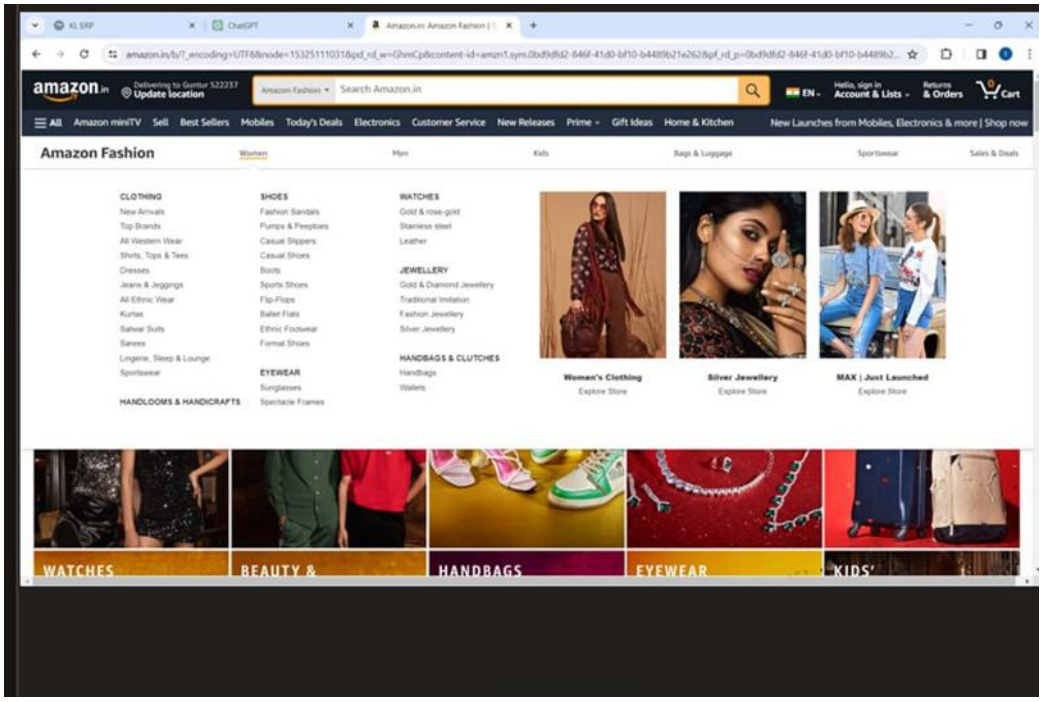
12.Write a selenium code to automate the following actions: 1. mouse move over 2. type text with case sensitive (pressing shift key action) 3. drag and drop.

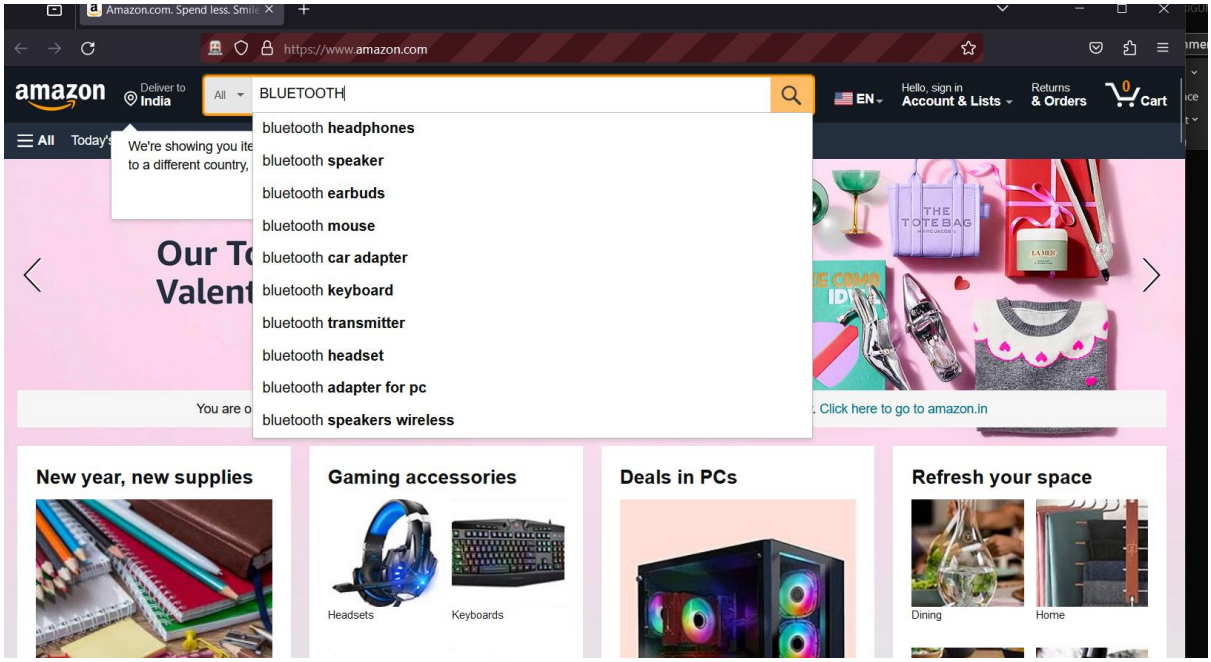
Code:

```
package Lab;

import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Actions;
public class automate {
    public static void main(String[] args) {
        WebDriver driver;
        System.out.println("testing on open browser");
        WebDriverManager.firefoxdriver();
        driver = new FirefoxDriver();
        driver.get("https://www.amazon.org");
        System.out.println(driver.getTitle());
        Actions an=new Actions(driver);
        Actions actions =
an.moveToElement(driver.findElement(By.cssSelector("div.nav-line-1-
container")));
        an.keyDown(Keys.SHIFT).sendKeys("bluetooth").build().perform();
```

```
an.moveToElement(driver.findElement(By.cssSelector("input#twotabsearchtextb
ox"))).click().keyDown(Keys.SHIFT).sendKeys("bluetooth").build().perform();
    }
}
```

Output:

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