Indexing-

Group and pass index.

Forgot password link on the page of naveen.

Goto url.


```java
1 package seleniumsessions;
2
3 import org.openqa.selenium.By;
6
7 public class CustomXpath {
8
9     public static void main(String[] args) {
10
11         WebDriver driver = new ChromeDriver();
12         driver.get("https://naveenautomationlabs.com/opencart/index.php?route=account/login");
13
14         //xpath: address of the element in html dom
```
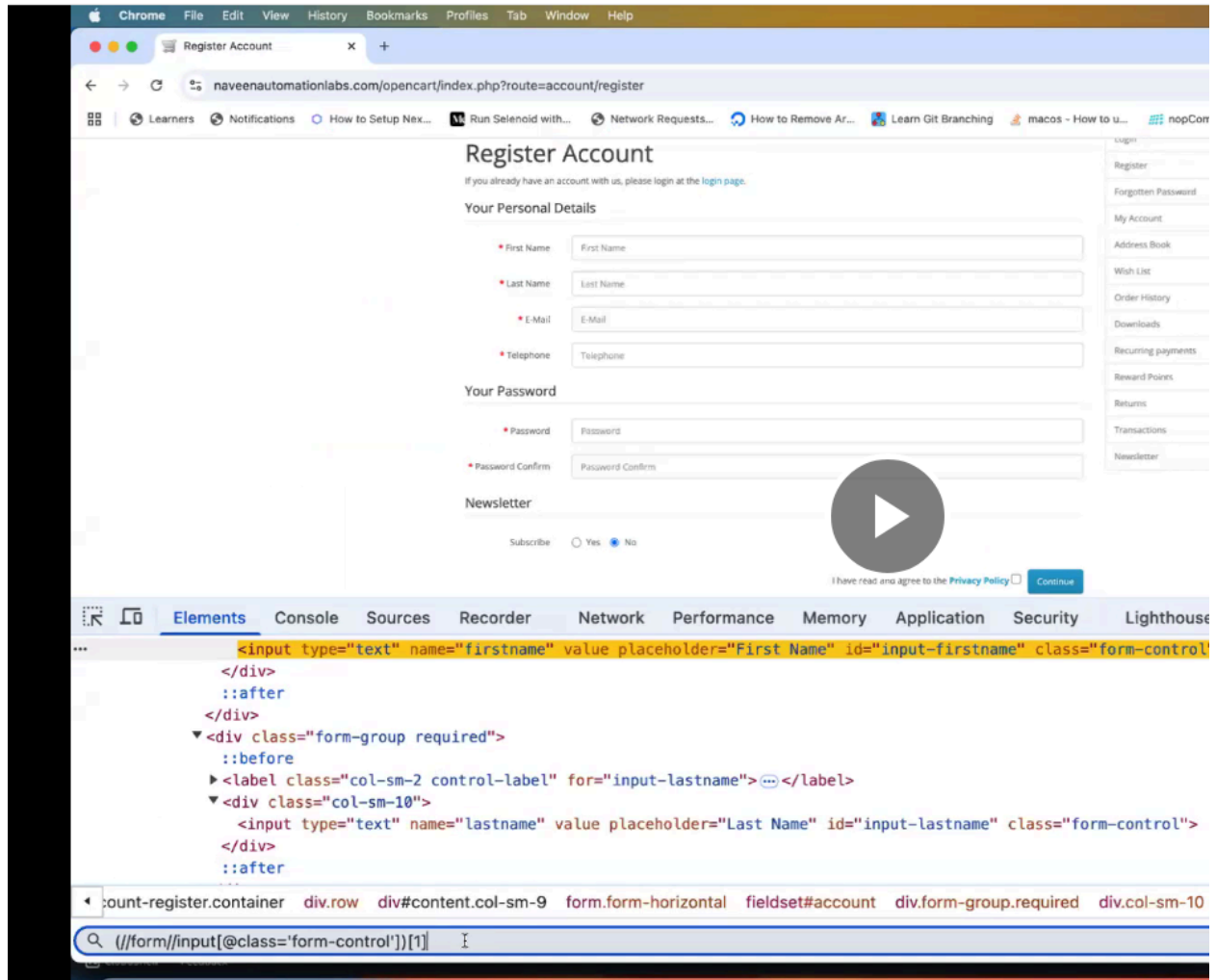
Write the xpath for forgotpassword.


```java
117         //ends-with(): NA in xpath:
118
119
120         //index in xpath:
121         // (//a[text()='Forgotten Password'])[2]
122         driver.findElement(By.xpath("(//a[text()='Forgotten Password'])[2]")).click();
123
124
125
```
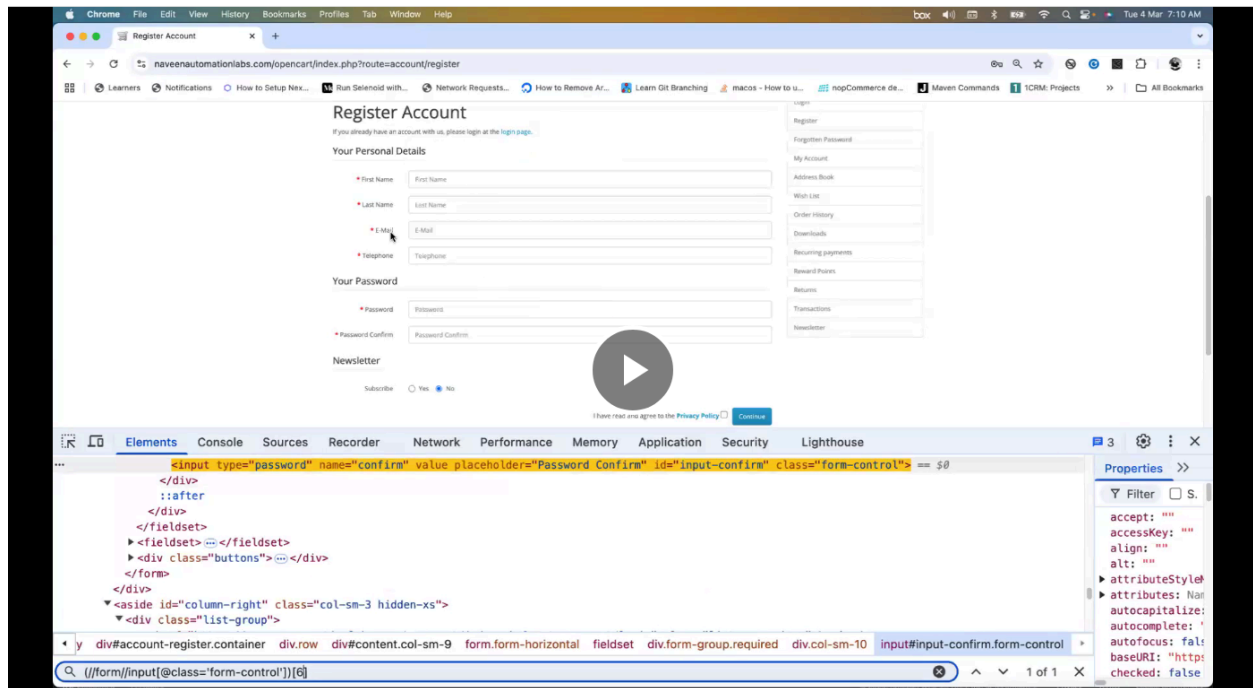
Comment 102 else getting error in output-


```java
98          By.xpath( //input[contains(@id, 'firstname_')] );
99
100         //<div>your order id is 12345</div>
101         By order = By.xpath("//a[contains(text(),'your order id is ')]");
102         //String orderText = driver.findElement(order).getText();
103         // orderText = your order id is 12345
104
105         //starts-with():
106         //htmltag[starts-with(@attr,'value')]
107         //input[starts-with(@placeholder 'E-Mail')]
```

Capture all text boxes in register page-

Ocd-

More options-

```
123
124        // (//form//input[@class='form-control'])[1]
125        // (//form//input[@class='form-control'])[position()=1]
126
127        // (//form//input[@class='form-control'])[last()]
128        // (//form//input[@class='form-control'])[last()-1]
129        // (//form//input[@class='form-control'])[position()=last()]
130
131                |
132
```

Click help on amazon footer-

```
131        // (((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()]
132        // (((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()-1]
133
```

No first function.

Updated code-

Click on the first link on the last column in amazon footer.

```
130
131         // ((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()]
132         // ((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()-1]
133         // ((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[1]
134                                String xpathExpression
```

Check if working by running the code-
Change url before running the code-

```
1  package seleniumsessions;
2
3  import org.openqa.selenium.By;
6
7  public class CustomXpath {
8
9      public static void main(String[] args) {
10
11          WebDriver driver = new ChromeDriver();
12          driver.get("https://www.amazon.com/");
13
```

Click on the help link in amazon footer-

```
119
120     //index in xpath:
121     // (//a[text()='Forgotten Password'])[2]
122     //driver.findElement(By.xpath("(//a[text()='Forgotten Password'])[2]").click();
123
124     // (//form//input[@class='form-control'])[1]
125     // (//form//input[@class='form-control'])[position()=1]
126
127     // (//form//input[@class='form-control'])[last()]
128     // (//form//input[@class='form-control'])[last()-1]
129     // (//form//input[@class='form-control'])[position()=last()]
130
131     // ((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()]
132     // ((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()-1]
133     // ((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[1]
134
135     boolean b1 = driver.findElement(By.xpath("((//div[contains(@class,'navFooterLinkCol')])[last()]//a)[last()]")).isDisplayed();
136     System.out.println(b1);
137
138
```
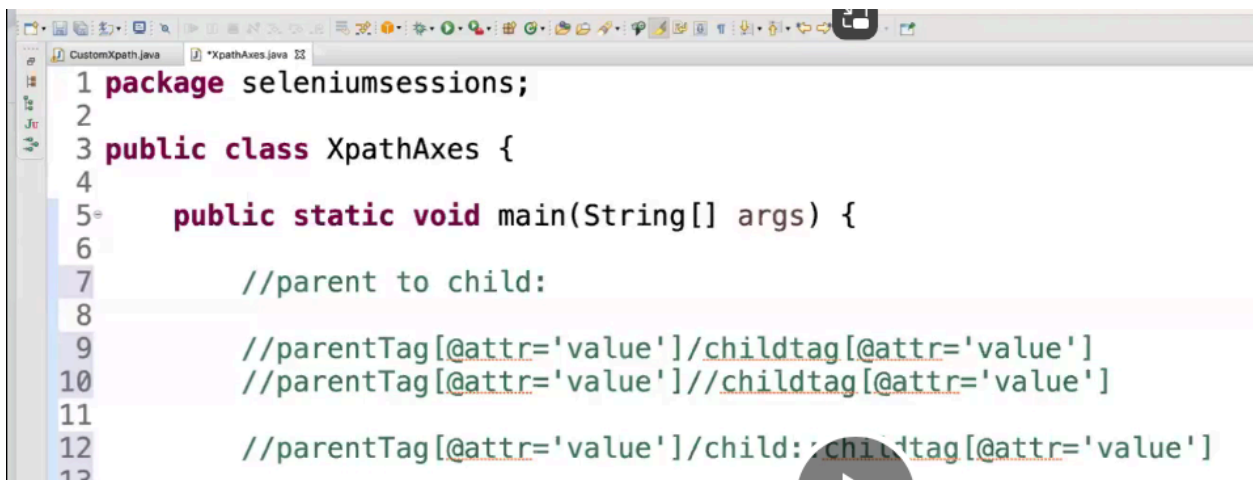
Check the right hand side link in naveen-
Check if first link is login and last is returns.

```
139        // (//a[@class='list-group-item'])[last()]
```

Last option for country in orange hrm

```
140
141        // (//select[@id='Form_getForm_Country']/option)[last()]
142
```

General syntax from parent to direct or indirect child-
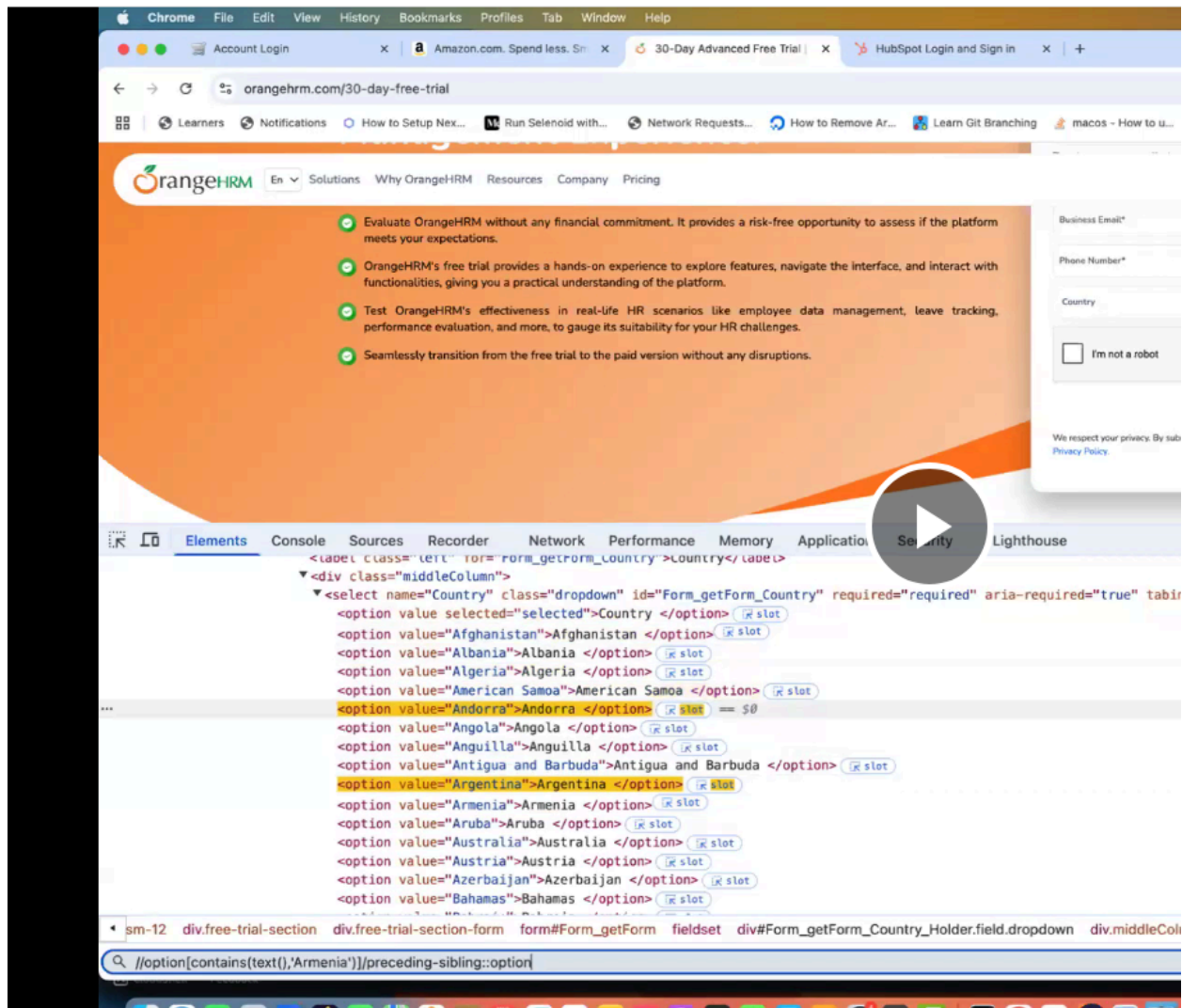
```
1 package seleniumsessions;
2
3 public class XpathAxes {
4
5    public static void main(String[] args) {
6
7        //parent to child:
8
9        //parentTag[@attr='value']/childtag[@attr='value']
10       //parentTag[@attr='value']//childtag[@attr='value']
11
12       //parentTag[@attr='value']/child::childtag[@attr='value']
13
```

Email of returning customer-
Naveen website.

```
13
14        // (//div[@class='form-group'])[.]/child::input[@id='input-email']
15
```

Ways to go to parent from child-

```java
package seleniumsessions;

public class XpathAxes {

    public static void main(String[] args) {

        //parent to child:

        //parentTag[@attr='value']/childtag[@attr='value']
        //parentTag[@attr='value']//childtag[@attr='value']

        //parentTag[@attr='value']/child::childtag[@attr='value']

        // (//div[@class='form-group'])[1]/child::input[@id='input-email']

        //div[@class='form-group']/child::input[@id='input-email']
        //div[@class='form-group']/input[@id='input-email']

        //select[@id='Form_getForm_Country']/child::option[contains(text(),'Armenia')]

        //child to parent: backward traversing:
        //input[@id='input-email']/../../../../../../../../..

        //option[contains(text(),'Armenia')]/..
        //input[@id='input-email']/parent::div/parent::form/parent::div

        //child to ancestor:
```

Try with two forward slash. It will work the same. Goes to direct parent. 47.28

```java
package seleniumbatch;

import org.openqa.selenium.By;

public class DirectWithDoubleSlash2 {

    public static void main(String[] args) {

        //direct and indirect parent can be accessed with double slash.

        WebDriver driver = new ChromeDriver();
        driver.get("file:///C:/Users/karan/Desktop/karan.html");

        WebElement element = driver.findElement(By.xpath("//div
[@id='container']//ul//li//span//parent::li//parent::ul"));
        System.out.println(element);
        //[[ChromeDriver: chrome on windows (98a3bc07aea509a22754aed69b58d37f)] -> xpath:
//div[@id='container']//ul//li//span//parent::li//parent::ul]
        String text = element.getText();
        System.out.println(text);
        //Item 1
        //Item 2
        //Item 3

    }
}
```

```java
 1  package seleniumbatch;
 2
 3  import org.openqa.selenium.By;
 4  import org.openqa.selenium.WebDriver;
 5  import org.openqa.selenium.WebElement;
 6  import org.openqa.selenium.chrome.ChromeDriver;
 7
 8  public class DirectWithDoubleSlash {
 9
10      public static void main(String[] args) {
11
12          //direct and indirect child can be accessed with double slash.
13
14          WebDriver driver = new ChromeDriver();
15          driver.get("file:///C:/Users/karan/Desktop/karan.html");
16
17          WebElement element = driver.findElement(By.xpath("//div[@id='container']//ul//li"));
18          System.out.println(element);
19          //[[ChromeDriver: chrome on windows (a8990a96c1f7211e0c1eb7949bc50feb)]
20          //-> xpath: //div[@id='container']//ul//li]
21          String text = element.getText();
22          System.out.println(text);//Item 1
23
24      }
25
26  }
27
```
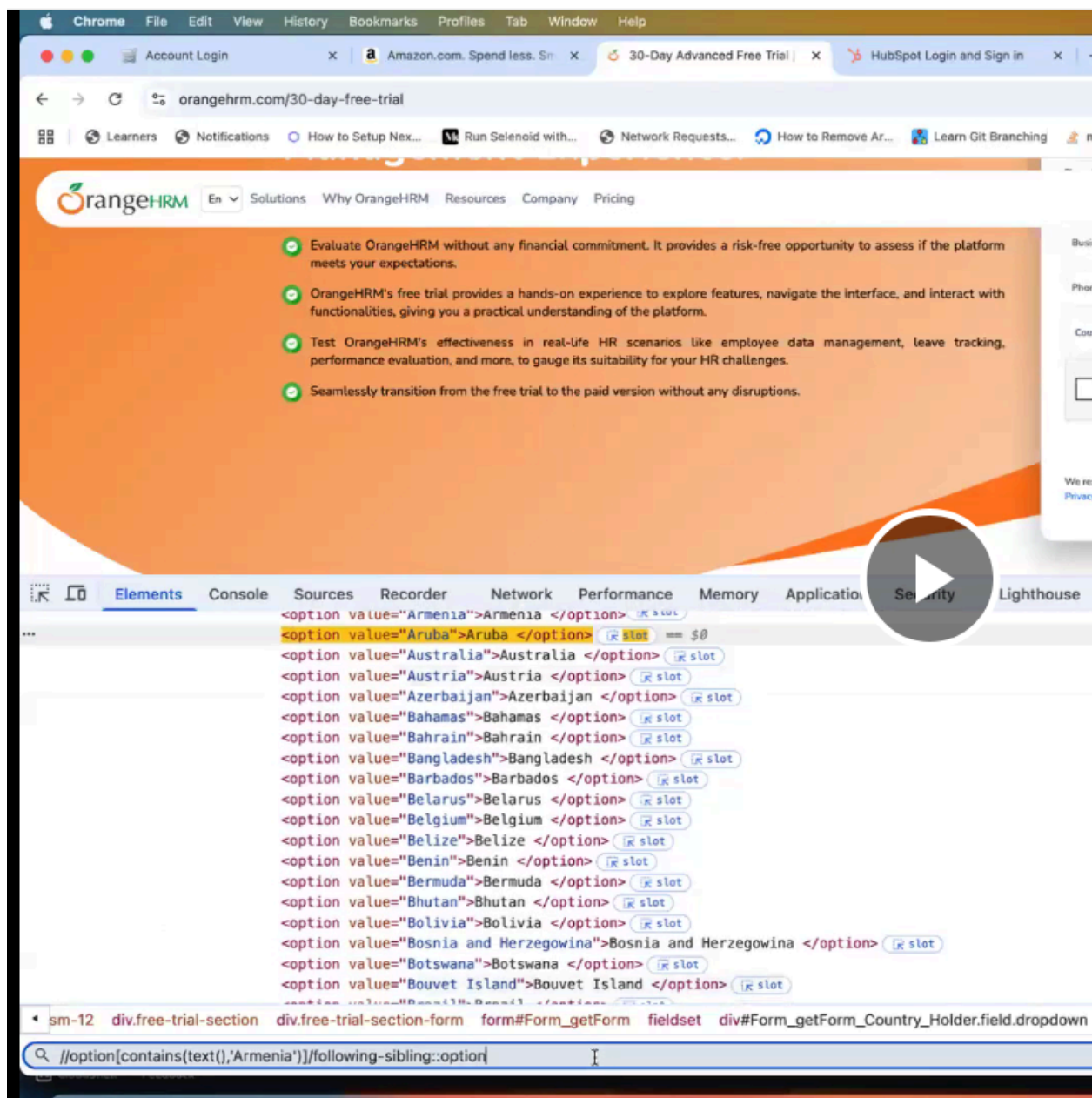
Know all siblings preceding armenia-
Orange hrm.

Succeeding armenia check siblings-
Used orange hrm and naveen website.

//click on the first option following armenia.

```
26
27       //child to ancestor:
28       //input[@id='input-email']/ancestor::form/ancestor::div[id='content']
29
30
31       //sibling:
32       //input[@id='input-email']/preceding-sibling::label
33       //label[@for='input-email']/following-sibling::input
34
35
36       //option[contains(text(),'Armenia')]/preceding-sibling::option -- 10
37       //option[contains(text(),'Armenia')]/following-sibling::option --- 222
38
39       // (//option[contains(text(),'Armenia')]/following-sibling::option)[1] --- 1
40
41
42       |
43    }
44
```

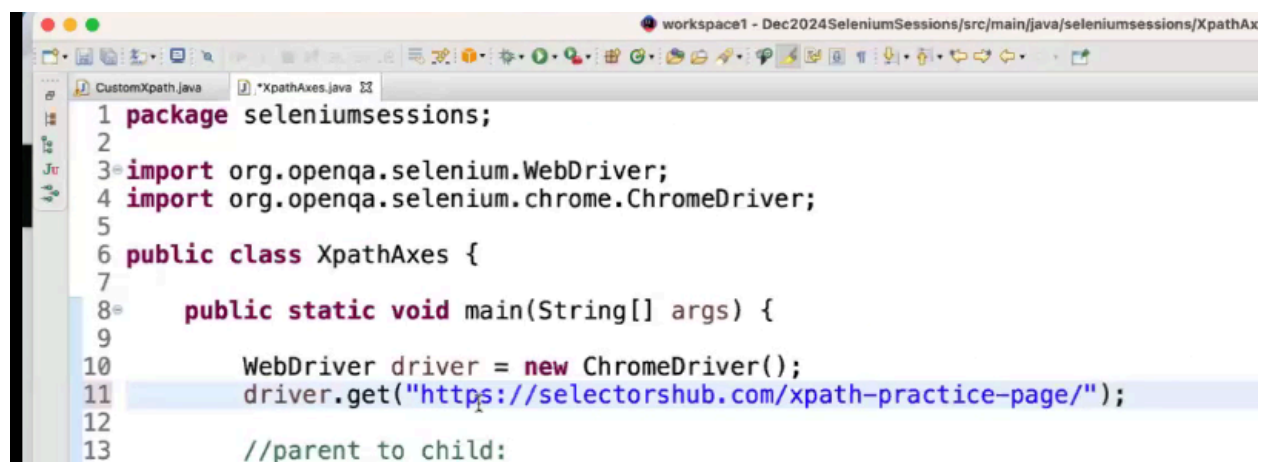# Selectors hub for webtable-

//clicking on checkbox next to the player.

```
42
43
44       //a[text()='Joe.Root']/parent::td/preceding-sibling::td/input[@type='checkbox']
45       //a[text()='John.Smith']/parent::td/preceding-sibling::td/input[@type='checkbox']
46
47       //a[text()='Joe.Root']/ancestor::tr//input[@type='checkbox']
48
```

Change url to perform the testing-

```
workspace1 - Dec2024SeleniumSessions/src/main/java/seleniumsessions/XpathAx

CustomXpath.java    *XpathAxes.java ⊠

 1  package seleniumsessions;
 2
 3  import org.openqa.selenium.WebDriver;
 4  import org.openqa.selenium.chrome.ChromeDriver;
 5
 6  public class XpathAxes {
 7
 8      public static void main(String[] args) {
 9
10          WebDriver driver = new ChromeDriver();
11          driver.get("https://selectorshub.com/xpath-practice-page/");
12
13          //parent to child:
```

Add line 13 to avoid instability-

```
10
11          WebDriver driver = new ChromeDriver();
12          driver.get("https://selectorshub.com/xpath-practice-page/");
13          Thread.sleep(4000);
14
15          //parent to child:
```

```
49
50      //1st path:
51      //a[text()='Joe.Root']/parent::td/preceding-sibling::td/input[@type='checkbox']
52      //a[text()='John.Smith']/parent::td/preceding-sibling::td/input[@type='checkbox']
53
54      //2nd path:
55      //a[text()='Joe.Root']/ancestor::tr//input[@type='checkbox']
56
57      driver.findElement(By.xpath("//a[text()='Joe.Root']/parent::td/preceding-sibling::td/input[@type='checkbox']")).click();
58      driver.findElement(By.xpath("//a[text()='John.Smith']/parent::td/preceding-sibling::td/input[@type='checkbox']")).click();
59
60   }
```

9 and 13 changes

```
4   import org.openqa.selenium.WebDriver;
5   import org.openqa.selenium.chrome.ChromeDriver;
6
7   public class XpathAxes {
8
9       static WebDriver driver;
10
11      public static void main(String[] args) throws InterruptedException {
12
13          driver = new ChromeDriver();
14          driver.get("https://selectorshub.com/xpath-practice-page/");
15          Thread.sleep(4000);
16
17          //parent to child:
```

Create utility and call
59 and 60 commented.

//application utility to click on the checkbox.

```
58
59 //     driver.findElement(By.xpath("//a[text()='Joe.Root']/parent::td/preceding-sibling::td/input[@type='checkbox']")).click();
60 //     driver.findElement(By.xpath("//a[text()='John.Smith']/parent::td/preceding-sibling::td/input[@type='checkbox']")).click();
61
62      selectUser("Joe.Root");
63      selectUser("John.Smith");
64
65   }
66
67
68   public static void selectUser(String userName) {
69      driver.findElement(By.xpath("//a[text()='"+userName+"']/parent::td/preceding-sibling::td/input[@type='checkbox']"))
70              .click();
71
```

We cannot paste this in element util because for every application the xpath is different.

Get all values to right of john smith-
Capture all values.

```
67
68      List<WebElement> colDataList = driver.findElements(By.xpath("//a[text()='John.Smith']/parent::td/following-sibling::td"));
69
70      System.out.println(colDataList.size());
71
72      for(WebElement e : colDataList) {
73          String text = e.getText();
74          System.out.println(text);
75      }
76
```

Create utility-
Generic method.
To capture more than one value from webtable and to the right of name.

```
68      }
69
70°     public static List<String> getUserDetails(String userName) {
71          List<WebElement> colDataList = driver
72                  .findElements(By.xpath("//a[text()='"+userName+"']/parent::td/following-sibling::td"));
73
74          System.out.println(colDataList.size());
75
76          List<String> colList = new ArrayList<String>();//pc=0, []
77
78          for (WebElement e : colDataList) {
79              String text = e.getText();
80              System.out.println(text);
81              colList.add(text);
82          }
83          return colList;
84      }
85
```

Call the multiple generic function which returns values from right-
//output is pass.

```java
if(getUserDetails("Joe.Root").contains("Enabled")) {
    System.out.println("PASS");
}
```