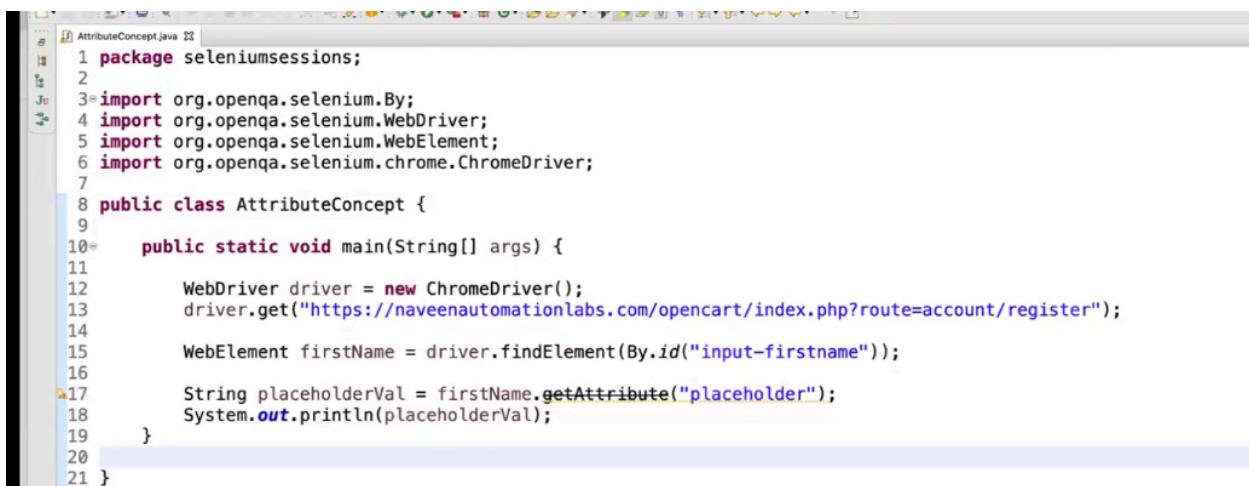


Get attribute
Give attribute name
Get the value of attribute
Deprecated
We are getting placeholder value of first name field.
It works now – returns First Name.



```
AttributeConcept.java
1 package seleniumsessions;
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 AttributeConcept {
9
10    public static void main(String[] args) {
11
12        WebDriver driver = new ChromeDriver();
13        driver.get("https://naveenautomationlabs.com/opencart/index.php?route=account/register");
14
15        WebElement firstName = driver.findElement(By.id("input-firstname"));
16
17        String placeholderVal = firstName.getAttribute("placeholder");
18        System.out.println(placeholderVal);
19    }
20
21 }
```

Get dom attribute
New method
Returns – //First Name

//new method in market to get the attribute value.

```
21     String placeholderVal = firstName.getDomAttribute("placeholder");
22     System.out.println(placeholderVal);
23
```

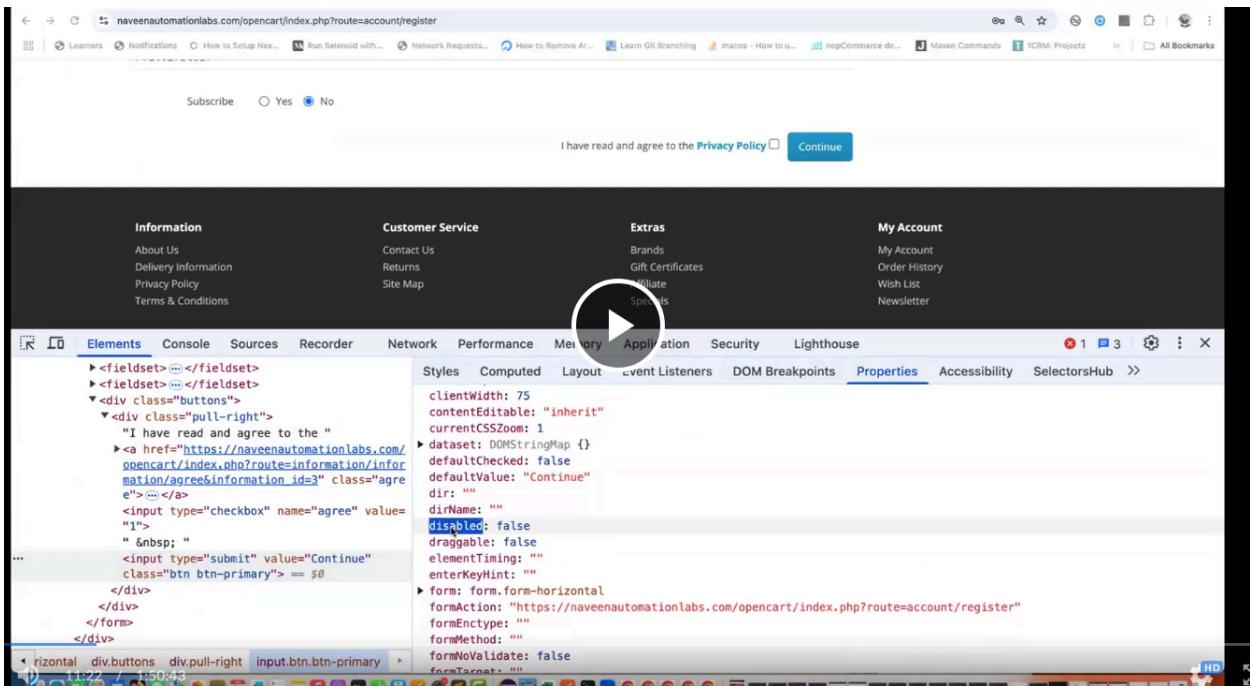
Get dom property-
Get values from styles section.
Styles section doesnt work.
Returned - //null

```

23
24     String height = firstName.getDomProperty("font-size");
25     System.out.println(height);
26
27     //webelement:
28     //1. DOM attribute
29     //2. property:
30

```

Continue button locator- Get style of it Properties section is better



Again get for first name and continue button
Tag name is for —//get the tagname for the firstname field.

```
//First Name
//INPUT
//false
```

```

20     String placeholderVal = firstName.getDomAttribute("placeholder");
21     System.out.println(placeholderVal);
22
23     String height = firstName.getDomProperty("tagName");
24     System.out.println(height);
25
26     String isEnabled = driver.findElement(By.xpath("//*[@id=\"content\"]/form/div/div/input[2]")).getDomProperty("disabled");
27     System.out.println(isEnabled);
28
29

```

Get one more property for continue button

//Continue

```

29     System.out.println(defaultValue);
30
31     String defaultValue = driver.findElement(By.xpath("//*[@id=\"content\"]/form/div/div/input[2]")).getDomProperty("defaultValue");
32     System.out.println(defaultValue);
33

```

Make utility in same class

```

42
43= public static String getElementDomAttributeValue(By locator, String attrName) {
44     return getElement(locator).getDomAttribute(attrName);
45 }
46
47= public static String getElementDomPropertyValue(By locator, String propName) {
48     return getElement(locator).getDomProperty(propName);
49 }
50
51= public static WebElement getElement(By locator) {
52     return driver.findElement(locator);
53 }
54

```

Move methods to element util-

```

28
29= public String getElementDomAttributeValue(By locator, String attrName) {
30     return getElement(locator).getDomAttribute(attrName);
31 }
32
33= public| String getElementDomPropertyValue(By locator, String propName) {
34     return getElement(locator).getDomProperty(propName);
35 }
36

```

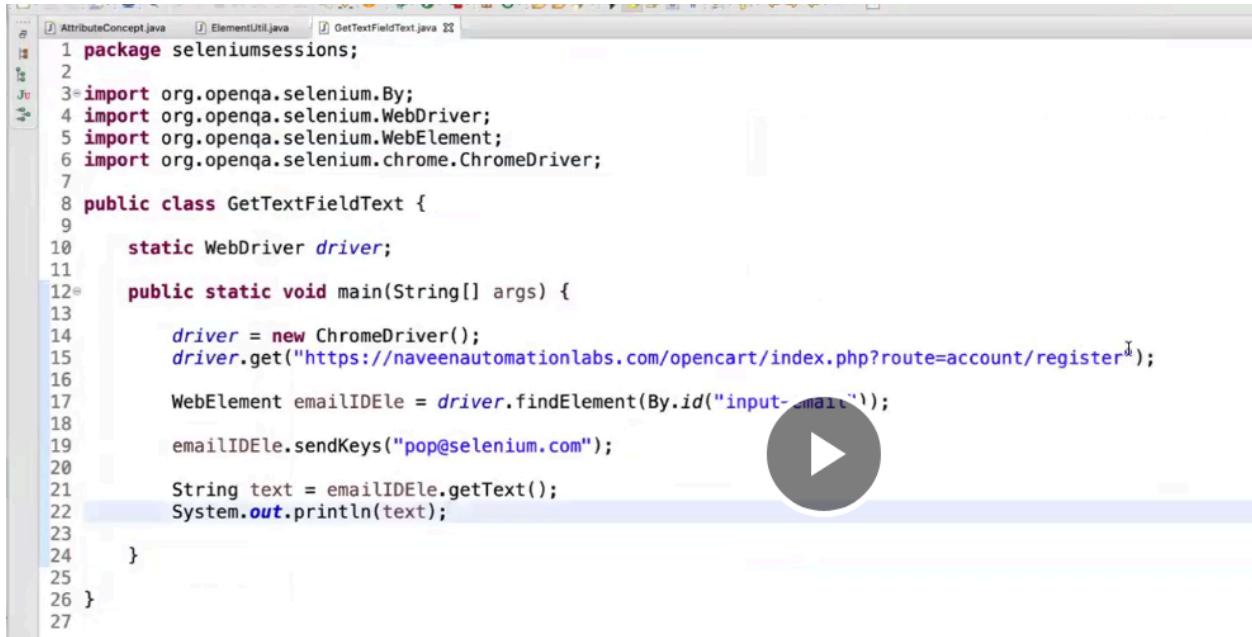
Double check if the value entered in email is the one we enter-

Get text method wont capture what we enter. Get text for the visible elements on webpage. We wont get anything in output when we run the below code.

Sentence hidden behind circle-

//find email field.

```
WebElement emailIDEle =  
driver.findElement(By.id("input-email"));
```



```
1 package seleniumsessions;  
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 GetTextFieldText {  
9  
10    static WebDriver driver;  
11  
12    public static void main(String[] args) {  
13  
14        driver = new ChromeDriver();  
15        driver.get("https://naveenautomationlabs.com/opencart/index.php?route=account/register");  
16  
17        WebElement emailIDEle = driver.findElement(By.id("input-email"));  
18  
19        emailIDEle.sendKeys("pop@selenium.com");  
20  
21        String text = emailIDEle.getText();  
22        System.out.println(text);  
23  
24    }  
25  
26 }  
27
```

This is the way to access
Use value attribute
Stores values which we enter
Doesnt work
Output is blank

//output is blank

```
20  
21      String emailID = emailIDEle.getDomAttribute("value");  
22      System.out.println(emailID);  
23  }
```

Use this and it works

//pop@selenium.com

```
21     String emailID = emailIDEle.getDomProperty("value");
22     System.out.println(emailID);
23 }
```

Sendkeys

Enter in firstname



```
1 package seleniumsessions;
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 SendKeysConcept {
9
10    static WebDriver driver;
11
12    public static void main(String[] args) {
13        //webElement ----> sendKeys
14
15        driver = new ChromeDriver();
16        driver.get("https://naveenautomationlab.com/opencart/index.php?route=account/register");
17
18        WebElement firstName = driver.findElement(By.id("input-firstname"));
19
20        String name = "Testing";
21
22        firstName.sendKeys(name);
23
24
25 }
```

Send multiple values in send keys-

Send keys accept char sequence interface which takes in array as argument.

```
19
20     String FN = "Testing";
21     String LN = "Automation";
22
23     firstName.sendKeys(FN, " ", LN);
24
```

We can pass builder and buffer also

```

22      //String FN = "Testing";
23      StringBuilder sb = new StringBuilder("Selenium");
24      StringBuffer sbf = new StringBuffer("Learning");
25
26      firstName.sendKeys(FN, " ", LN, sb, sbf);
27

```

Comma separation also allowed

```

24
25      firstName.sendKeys(FN, " ", LN, " ", sb, " ", sbf);
26

```

I have added more in my code -

```
//TestingTestingAutomationTesting,Automation,Selenium,Learning
```

```

17
18      //get the first name locator.
19      WebElement firstName = driver.findElement(By.id("input-firstname"));
20      //      WebElement lastName = driver.findElement(By.id("input-lastname"));
21
22      //this is the value we need to pass in first name.
23      String FN = "Testing";
24      firstName.sendKeys(FN); //returns void
25
26      //send multiple values in send keys
27      //Send keys accept char sequence interface which takes in array as argument.
28
29      String LN = "Automation";
30      firstName.sendKeys(FN, LN);
31
32      //we can pass string builder and buffer also in send keys.
33
34      StringBuilder sb = new StringBuilder("Selenium");
35      StringBuffer sbf = new StringBuffer("Learning");
36
37      //pass in first name, space, comma, no space, last name, buffer and builder.
38      firstName.sendKeys(FN, " ", LN, " ", sb, " ", sbf, " ", " ");
39      //TestingTestingAutomationTesting,Automation,Selenium,Learning

```

Send keys takes char sequence as input. We can give string, builder or buffer comma separated values because it takes in array.

Try to send null to send keys

Last name is passed null

We get illegal argument exception for null

```
//all lines above error run.  
//Exception in thread "main"  
java.lang.IllegalArgumentException:  
//      Keys to send should be a not null CharSequence  
//  
org.openqa.selenium.remote.RemoteWebElement.sendKeys(RemoteWebE  
lement.java:92)  
//      at  
seleniumbatch.SendKeysConcept.main(SendKeysConcept.java:42)
```

```
17  
18     WebElement firstName = driver.findElement(By.id("input-firstname"));  
19     WebElement lastName = driver.findElement(By.id("input-lastname"));  
20  
21     String FN = "Testing";  
22     String LN = "Automation";  
23     StringBuilder sb = new StringBuilder("Selenium");  
24     StringBuffer sbf = new StringBuffer("Learning");  
25  
26     firstName.sendKeys(FN,"",LN,"",sb,"",sbf);  
27  
28     lastName.sendKeys(null);  
29
```

Go to element util and add the check for null in send keys method

```
15-     public void doSendKeys(By locator, String value) {  
16         if(value == null) {  
17             throw new RuntimeException("==Value can not be null==");  
18         }  
19         getElement(locator).sendKeys(value);  
20     }
```

Overload do send keys to accept buffer and builder-
We can have two methods - one for string, one
which will work for buffer and builder, but char
sequence does the job even if we have one method.

This is because char sequence can take in any character sequence form as argument. So we can have one method for string, buffer and builder and it will also work.

```
21
22  public void doSendKeys(By locator, CharSequence... value) {
23      if(value == null) {
24          throw new RuntimeException("==Value can not be null==");
25      }
26      getElement(locator).sendKeys(value);
27  }
28
```

Internal private method created for null check-

```
14
15  private void nullCheck(CharSequence... value) {
16      if(value == null) {
17          throw new RuntimeException("==Value can not be null==");
18      }
19 }
```

Update the send keys method -

```
21  public void doSendKeys(By locator, String value) {
22      nullCheck(value);
23      getElement(locator).sendKeys(value);
24  }
25
26  public void doSendKeys(By locator, CharSequence... value) {
27      nullCheck(value);
28      getElement(locator).sendKeys(value);
29  }
30 }
```

Updated these two methods for null checks

```
41  public String getElementDomAttributeValue(By locator, String attrName) {  
42      nullCheck(attrName);  
43      return getElement(locator).getDomAttribute(attrName);  
44  }  
45  
46  public String getElementDomPropertyValue(By locator, String propName) {  
47      nullCheck(propName);  
48      return getElement(locator).getDomProperty(propName);  
49  }  
50 }
```

Send keys with disabled element-

When we try to enter something or do something on disabled element we get element not interactable exception.

Password field is disabled.



```
1 package seleniumsessions;  
2  
3 import org.openqa.selenium.By;  
4 import org.openqa.selenium.WebDriver;  
5 import org.openqa.selenium.chrome.ChromeDriver;  
6  
7 public class SendKeysWithDisableElement {  
8     static WebDriver driver;  
9  
10    public static void main(String[] args) {  
11        driver = new ChromeDriver();  
12        driver.get("https://seleniumpractise.blogspot.com/2016/09/how-to-work-with-disable-textbox-or.html");  
13        driver.findElement(By.id("pass")).sendKeys("testing");  
14    }  
15  
16 }
```

Can we click on disabled element-

No exception

Output blank

```

16     WebElement password = driver.findElement(By.id("pass"));
17     //password.sendKeys("testing");
18     //ElementNotInteractableException: element not interactable
19     //this element is disabled
20
21     password.click(); //click on disabled element
22
23
24
25 }
```



Isdisplayed-

Element displayed or not.

Returns boolean - true as displayed.

```

1 package seleniumsessions;
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 ElementEnabledDisabledSelected {
9
10    static WebDriver driver;
11
12    public static void main(String[] args) {
13
14        driver = new ChromeDriver();
15        driver.get("https://seleniumpractise.blogspot.com/2016/09/how-to-work-with-disable-textbox-or.html");
16
17        WebElement password = driver.findElement(By.id("pass"));
18
19        boolean f1 = password.isDisplayed();
20        System.out.println(f1); //true
21
22    }
23
24
25
26 }
```

Isenabled-

Returns boolean - false as not enabled.

If enabled or disabled.

```

22
23
24     boolean f2 = password.isEnabled();
25     System.out.println(f2); //false
26 }
```

Isselected-

For radio or check. Click privacy check.

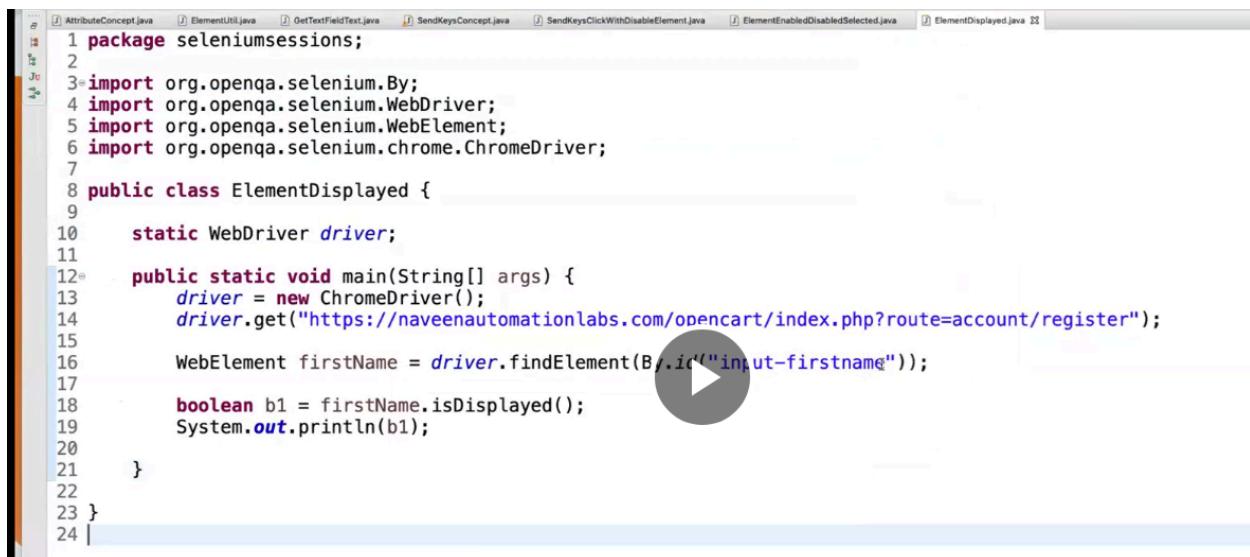
```
26  
27     driver.navigate().to("https://naveenautomationlabs.com/opencart/index.php?route=account/register");  
28     WebElement privacyCheckBox = driver.findElement(By.name("agree"));  
29  
30     System.out.println(privacyCheckBox.isSelected()); //false  
31  
32     privacyCheckBox.click();  
33  
34     System.out.println(privacyCheckBox.isSelected()); //true  
35
```

Element display another problem-
We want to check if first name is displayed or not.

Exception in thread "main"

org.openqa.selenium.NoSuchElementException:

```
//          no such element: Unable to locate element:  
//          {"method":"css selector","selector":"#input\\-firstname11"}  
//          (Session info: chrome=140.0.7339.186)
```



A screenshot of a Java code editor showing a NoSuchElementException. The code is as follows:

```
1 package seleniumsessions;  
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 ElementDisplayed {  
9  
10    static WebDriver driver;  
11  
12    public static void main(String[] args) {  
13        driver = new ChromeDriver();  
14        driver.get("https://naveenautomationlabs.com/opencart/index.php?route=account/register");  
15  
16        WebElement firstName = driver.findElement(By.id("input-firstname"));  
17  
18        boolean b1 = firstName.isDisplayed();  
19        System.out.println(b1);  
20    }  
21  
22 }  
23 |  
24 |
```

The code attempts to find an element by ID "input-firstname" and check if it is displayed. A large red circle highlights the line of code `boolean b1 = firstName.isDisplayed();` indicating where the exception occurred. A tooltip above the circle says "No such element".

No such element exception-
Give wrong locator and the element is not found.

```
//Exception in thread "main"
org.openqa.selenium.NoSuchElementException:
//      no such element: Unable to locate element:
//      {"method":"css selector","selector":"#input\\firstname11"}
//      (Session info: chrome=140.0.7339.186)
```

```
15
16 //      WebElement firstName = driver.findElement(By.id("input-firstname11"));
17 //
18 //      boolean b1 = firstName.isDisplayed();
19 //      System.out.println(b1);
```



Lets tweak the code-
This will also give exception.

```
//      Exception in thread "main"
org.openqa.selenium.NoSuchElementException:
//      no such element: Unable to locate element:
//      {"method":"css selector","selector":"#input\\firstname11"}
//      (Session info: chrome=140.0.7339.186)
```

```
15
16 //      WebElement firstName = driver.findElement(By.id("input-firstname11"));
17 //
18 //      boolean b1 = firstName.isDisplayed();
19 //      System.out.println(b1);
20
21     boolean b1 = driver.findElement(By.id("input-firstname11")).isDisplayed();
22     System.out.println(b1);
```

Static method added

```
26
27
28  public static boolean IsElementDisplayed(By locator) {
29      return driver.findElement(By.id("input-firstname11")).isDisplayed();
30  }
31
32
33  public static WebElement getElement(By locator) {
34      return driver.findElement(locator);
35  }
```

Changed first method-

```
33
34  public static boolean isElementDisplayed(By locator) {
35      return getElement(locator).isDisplayed();
36  }
37
38
39  public static WebElement getElement(By locator) {
40      return driver.findElement(locator);
41  }
42 |
```

Call the methods

No such element exception.

```
//because the element is not identifiable before isdisplayed is called.
    //we get no such element exception.
    //Exception in thread "main"
org.openqa.selenium.NoSuchElementException:
    //no such element: Unable to locate element:
    //{"method":"css selector","selector":"#input-firstname11"}
    //(Session info: chrome=140.0.7339.186)
```

```
15
16 //      WebElement firstName = driver.findElement(By.id("input-firstname11"));
17 //
18 //      boolean b1 = firstName.isDisplayed();
19 //      System.out.println(b1);
20
21 //      boolean b1 = driver.findElement(By.id("input-firstname11")).isDisplayed();
22 //      System.out.println(b1);
23
24     By fn = By.id("input-firstname11");
25     if(isElementDisplayed(fn)) {
26         System.out.println("PASS");
27     }
28     else {
29         System.out.println("FAIL");
30     }
31
32 }
```



Is displayed is dangerous method. We need to use exception handling. This is because if isdisplayed is false then program terminates abruptly.

Passing right locator will pass displayed method also but cant rely -

```
63         //pass right first name locator.  
64         //ele is displayed - PASS  
65     By fn = By.id("input-firstname");  
66  
67     if (isElementDisplayed(fn)) {  
68         System.out.println("ele is displayed - PASS");  
69     } else {  
70         System.out.println("ele is not displayed - FAIL");  
71     }  
72 }
```

Changed the method

```
33  
34     public static boolean isElementDisplayed(By locator) {  
35  
36         try {  
37             return getElement(locator).isDisplayed();  
38         } catch (NoSuchElementException e) {  
39             e.printStackTrace();  
40             System.out.println("element is not present on the page");  
41             return false;  
42         }  
43     }  
44 }
```

Updated caller to call the static method

```
10 //
17 // WebElement firstName = driver.findElement(By.id("input-firstname11"));
18 //
19 // boolean b1 = firstName.isDisplayed();
20 // System.out.println(b1);
21 //
22 // boolean b1 = driver.findElement(By.id("input-firstname11")).isDisplayed();
23 // System.out.println(b1);
24 //
25 By fn = By.id("input-naveen");
26 //
27 if (isElementDisplayed(fn)) {
28     System.out.println("ele is not displayed - PASS");
29 } else {
30     System.out.println("ele is not displayed - FAIL");
31 }
32 }
33
```



Lets remove the stack trace as it doesnt look good-
Run and nice output.

```
33
34 public static boolean isElementDisplayed(By locator) {
35
36     try {
37         return getElement(locator).isDisplayed();
38     }
39     catch (NoSuchElementException e) {
40         System.out.println("element is not present on the page using : " + locator);
41         return false;
42     }
43 }
44 }
```

red 24, 2020 9:41:22 AM org.openqa.selenium.devtools.CdpVersionFrom
WARNING: Unable to find an exact match for CDP version 133, return:
element is not present on the page using : By.id: input-naveen
ele is not displayed - FAIL

My great code-

```
ElementDisplayed.java
1 package seleniumbatch;
2
3 import java.util.NoSuchElementException;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.WebElement;
8 import org.openqa.selenium.chrome.ChromeDriver;
9
10 public class ElementDisplayed {
11
12     static WebDriver driver;
13
14     public static void main(String[] args) {
15         driver = new ChromeDriver();
16         driver.get("https://naveenautomationlabs.com/opencart/index.php?route=account/register");
17
18         //locator for first name field.
19         // WebElement firstName = driver.findElement(By.id("input-firstname11"));
20
21         // boolean b1 = firstName.isDisplayed();
22         // System.out.println(b1);
23         // Exception in thread "main" org.openqa.selenium.NoSuchElementException:
24         //     no such element: Unable to locate element:
25         // {"method":"css selector","selector":"#input-firstname11"}
26         // (Session info: chrome=140.0.7339.186)
27
28         // {"method":"css selector","selector":"#input-firstname11"}
29         // (Session info: chrome=140.0.7339.186)
30
31         // give wrong locator and check exception.
32         // boolean b1 = driver.findElement(By.id("input-firstname11")).isDisplayed();
33         // System.out.println(b1);
34
35         //Exception in thread "main" org.openqa.selenium.NoSuchElementException:
36         //     no such element: Unable to locate element:
37         // {"method":"css selector","selector":"#input-firstname11"}
38         // (Session info: chrome=140.0.7339.186)
39
40         //lets tweak code and check if exception seen.
41         // boolean b1=driver.findElement(By.id("input-firstname11")).isDisplayed();
42         // System.out.println(b1);
43         // Exception in thread "main" org.openqa.selenium.NoSuchElementException:
44         //     no such element: Unable to locate element:
45         // {"method":"css selector","selector":"#input-firstname11"}
46         // (Session info: chrome=140.0.7339.186)
47
48         //pass invalid first name locator.
49         // By fn = By.id("input-firstname11");
50 }
```

```

45     //pass invalid first name locator.
46     // By fn = By.id("input-firstname11");
47     //
48     // if (isElementDisplayed(fn)) {
49     //     System.out.println("ele is displayed - PASS");
50     // } else {
51     //     System.out.println("ele is not displayed - FAIL");
52     // }
53
54     //because the element is not identifiable before isDisplayed is called.
55     //we get no such element exception.
56     //Exception in thread "main" org.openqa.selenium.NoSuchElementException:
57     //no such element: Unable to locate element:
58     //{"method":"css selector","selector":"#input-firstname11"}
59     //(Session info: chrome=140.0.7339.186)
60     //Is displayed is dangerous method. We need to use exception handling.
61     //This is because if isDisplayed is false then program terminates abruptly.
62
63     //pass right first name locator.
64     //ele is displayed - PASS
65     // By fn = By.id("input-firstname");
66     //
67     // if (isElementDisplayed(fn)) {
68     //     System.out.println("ele is displayed - PASS");
69     // } else {
70     //     System.out.println("ele is not displayed - FAIL");
71     // }
72
70     //     System.out.println("ele is not displayed - FAIL");
71     }
72
73     //pass invalid method to the new try catch method.
74     //we will still get error because getElement will throw the exception.
75     // Exception in thread "main" org.openqa.selenium.NoSuchElementException:
76     //     no such element: Unable to locate element:
77     // {"method":"css selector","selector":"#input-karan"}
78     //(Session info: chrome=140.0.7339.186)
79     // By fn = By.id("input-karan");
80     //
81     // if (isElementDisplayed(fn)) {
82     //     System.out.println("ele is displayed - PASS");
83     // } else {
84     //     System.out.println("ele is not displayed - FAIL");
85     // }
86
87     //now use the two new try catch methods.
88     //this also throws error.
89     //Exception in thread "main" org.openqa.selenium.NoSuchElementException:
90     //     no such element: Unable to locate element:
91     // {"method":"css selector","selector":"#input-karan"}
92     //(Session info: chrome=140.0.7339.186)
93

```

```
91      //      {"method":"css selector","selector":"#input\\-karan"}  
92      //      (Session info: chrome=140.0.7339.186)  
93  
94      //      Your catch (NoSuchElementException e) was too narrow.  
95      //      Selenium's findElement() sometimes throws wrapped/remote  
96      //      exceptions that don't map exactly to NoSuchElementException  
97      //      until later in the stack trace. That's why the catch never triggered.  
98      //      Use catch (Exception e) (or Selenium's WebDriverException)  
99      //      for more reliable handling.  
100     //      By fn = By.id("input-karan");  
101     //  
102     //      if (isElementDisplayed(fn)) {  
103     //          System.out.println("ele is displayed - PASS");  
104     //      } else {  
105     //          System.out.println("ele is not displayed - FAIL");  
106     //      }  
107  
108     //update method for more broader exception type.  
109     //used exception class.  
110     //      element is not present on page  
111     //      element is not present on page  
112     //      ele is not displayed - FAIL  
113 //      By fn = By.id("input-karan");  
114 //  
115 //      //      ele is not displayed - FAIL  
116 //      By fn = By.id("input-karan");  
117 //  
118 //      if (isElementDisplayed(fn)) {  
119 //          System.out.println("ele is displayed - PASS");  
120 //      } else {  
121 //          System.out.println("ele is not displayed - FAIL");  
122 //      }  
123  
124     //update method for more broader exception type.  
125     //used exception class.  
126     //pass right locator.  
127     //ele is displayed - PASS  
128     By fn = By.id("input-firstname");  
129  
130     if (isElementDisplayed(fn)) {  
131         System.out.println("ele is displayed - PASS");  
132     } else {  
133         System.out.println("ele is not displayed - FAIL");  
    }
```

```
131         System.out.println("ele is not displayed - FAIL");
132     }
133
134
135
136
137     //
138     //
139     //      By logo = By.className("img-responsive");
140     //      System.out.println(isElementDisplayed(logo));
141     //
142 }
143
144 //  public static boolean isElementDisplayed(By locator) {
145 //      return getElement(locator).isDisplayed();
146 //  }
147
148 //changed the displayed method to handle exceptions nicely.
149 //  public static boolean isElementDisplayed(By locator) {
150 //      try {
151 //          return getElement(locator).isDisplayed();
152 //      }catch(NoSuchElementException e) {
153 //          //        e.printStackTrace(); //this spoils output.
154 //          System.out.println("element is not present on page");
155 //          return false;
156 //          //        e.printStackTrace(); //this spoils output.
157 //          System.out.println("element is not present on page");
158 //          return false;
159 //      }
160 //  }
161 //  public static boolean isElementDisplayed(By locator) {
162 //      try {
163 //          return getElement(locator).isDisplayed();
164 //      }catch(Exception e) {
165 //          //        e.printStackTrace(); //this spoils output.
166 //          System.out.println("element is not present on page");
167 //          return false;
168 //      }
169
170 //  public static WebElement getElement(By locator) {
171 //      return driver.findElement(locator);
172 //  }
173
174 //getelement also has to handle no such element exception.
175 //  public static WebElement getElement(By locator) {
176 //      try {
177 //          return driver.findElement(locator);
178 //      }catch(NoSuchElementException e) {
179 //          //        e.printStackTrace(); //this spoils output.
180 //          System.out.println("element is not present on page");
```

```

179     //    e.printStackTrace(); //this spoils output.
180     //    System.out.println("element is not present on page");
181     //    return null;
182     //}
183     //
184     //}
185
186     //handle any exception.
187     public static WebElement getElement(By locator) {
188         try {
189             return driver.findElement(locator);
190         }catch(Exception e) {
191             //    e.printStackTrace(); //this spoils output.
192             System.out.println("element is not present on page");
193             return null;
194         }
195     }
196 }
197
198 }
199
200

```

Move the isDisplayed method to element util

```

51
52     public boolean isElementDisplayed(By locator) {
53         try {
54             return getElement(locator).isDisplayed();
55         }
56         catch (NoSuchElementException e) {
57             System.out.println("element is not present on the page using : " + locator);
58             return false;
59         }
60     }
61

```

Element displayed class-
Check if logo is displayed on page.

```

//true
32
33
34     By logo = By.className("img-responsive");
35     System.out.println(isElementDisplayed(logo));
36
37

```

