

## sendKeys()

in list [WebElement](#)

### Description Edit

### Signature:

**public void sendKeys(CharSequence...keysToSend)**

### Usage:

```
ele.sendKeys("Chandan");
ele.sendKeys(Keys.ENTER);
```

### Attachments

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## About

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- It is used to perform 2 operations:
- 01.) To enter the data into the text field.
- 02.) To perform some keyboard simulations.
- 1.) It will append the data into the text field (It will not remove the existing content), so it's the best practice to use clear() before using sendkeys().
- If the value is null then it will throw IllegalArgumentException.
- 2.) To perform keyboard simulations like pressing Enter Key onto the webelement or using some shortcut keys to copy paste, we have to use the built-in enum of selenium called "Keys". This keys enum contains all the keyboard keys as the constants.

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- i.e. enum Keys{ ENTER, BACKSPACE, DELETE }
- If the given keyboard action cannot be performed on the target WebElement then it will throw ElementNotInteractableException.
- Keys is a built-in enum and it's Java Template.
- enum stands for enumeration.
- NOTE01:
  - CharSequence is an interface in java which was implemented by String and StringBuilder Classes.
- Note02:
  - Keys enum is also implementing by CharSequence interface of Java.
- Note03:
  - So for this reason sendKeys() can supply String as input, StringBuilder



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- So for this reason sendKeys() can supply String as input, StringBuilder as Input and Keys enum as input. (AutoUpCasting)
- Note04: IllegalArgumentException is an Unchecked Exception of Java.
- What Is ElementNotInteractableException?
- It is an unchecked exception of selenium which will be thrown when the target element cannot perform desired operation/Keyboard Simulation.
- Ex: Upon the Target element if it's not able to perform keyboard simulation. In Such cases to avoid this exception we should take the parent tag.
- What Is enum?
- It is one of the java templates, which is used to group the fixed number of constants.



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number of constants.

- Syntax: enum NameOfEnum {}
- Eg: enum Weeks { MONDAY, TUESDAY, WEDNESDAY }
- Through enums we can achieve uniformity while development. In Selenium we have few enums like TimeUnit, Keys, etc....!
- USAGE: NameOfEnum.CONSTANTNAME
- Ex01: Week.MONDAY
- Ex02: Keys.ENTER
- Ex03: TimeUnit.SECONDS

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## getText()

in list WebElement

≡ Description Edit

### Signature:

public String getText()

### Usage:

ele.getText();

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Automation i

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This method is used to get the text of the webelement. Actions

It is used to get both the normal text and link text. → Move

It is used to verify the text of the targetElement. Copy

It returns the text in String form. Make template

Usage: ele.getText(); Watch

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Issue w.r.t getText() Delete

v - □



Issue w.r.t getText()

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- URL: <https://demo.actitime.com/>
- Go to actiTIME Login Page.
- Username: admin --> Inspect this text and Write the Xpath
- //td[@id='adminCredentialsHeader']/following-sibling::td
- getText() will select both the main tag <td> text i.e "Username: " and sub-tag <b> text i.e. "admin".
- NOTE:It will return the tag text and also the sub tag text. This behaviour of getText() is sometimes an advantage and sometimes it's an disadvantage.
- Advantage in the calendar pop-up.
- Their Is an open defect in selenium github which is not fixed.



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## webElement getTagName()

in list WebElement

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### Signature:

public String getTagName()

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### Usage:

```
String tag =ele.getTagName();
```

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### Sample:



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← → C 🔒 trello.com/c/2e9UKgOQ/95-gettagname

Sample:

```
public void test(ele, text) {  
if (ele.getTagName().equals("input")) {  
ele.clear();  
ele.sendKeys(text);  
ele.submit();  
}  
}
```

Attachments

Sample Example here: ↗  
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Interview Question ↗  
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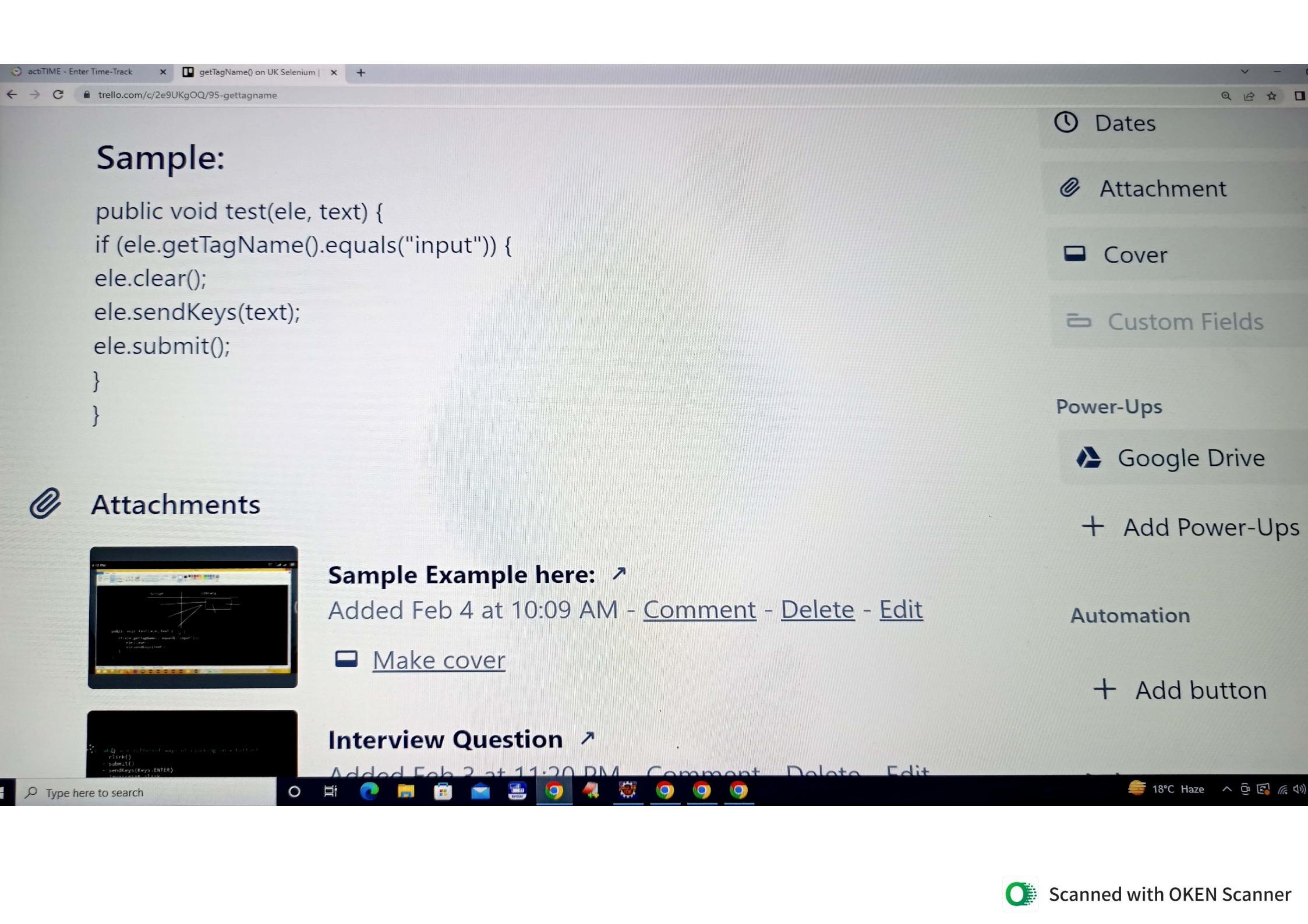
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## About:

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- This method is used to get the tagName of the target webelement.
- It is used to verify the tagName of the target webelement.
- It returns the tagName in string form.
- It is generally used in library methods to verify the tagName of the target webelement to perform the desired task.

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## Activity

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## 💻 getAttribute()

in list [WebElement](#)

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### Signature:

public String getAttribute(String attributeName)



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🏷️ Labels

### Usage:

String attributeValue = ele.getAttribute("placeholder");

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About:



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trello.com/c/QLH2JpwM/94-getattribute

About:

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This method will return the value of the given attributeName of the target webelement.

The argument of this method is String and the return type is String.

If the given attributename is doesn't contains value then it will return null.

If the given attribute is not having any value then it returns empty string i.e. " ".(but in console it won't print " ").

<a href="" name="a1" id="b1">abc</a>

It is used to verify the Attribute values of the target web elements like:

verifying the tool tip text.

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string i.e. " ".(but in console it won't print " ").

+ Add Power-

**<a href="" name="a1" id="b1">abc</a>**

Automation

It is used to verify the Attribute values of the target web elements like:

+ Add button

verifying the tool tip text.

Actions

verifying the alternative text.

→ Move

To verify the placeholder text is correct or not.

Copy

To verify the text field is empty or not.

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Assignment 01:

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## 💻 getCssValue()

in list [WebElement](#)

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### Signature:

public String getCssValue(String propertyName)



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## About:

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- This Method is used to verify the styling information of the target Webelement.
- This method accepts the css property name as a input in the string form and returns the value associated with that property in string form.
- If the property name is not having any value, in such cases it returns empty string. So while using this method first verify whether the return value is empty or not.
- Ex:01 Verifying the background color of a button.
- Ex:02 Verifying the color of the text.
- Ex:03 Verifying the boldness of the text etc.

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Actions

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Note: 01 Delete

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1.) To see the css property and values of a target webelement:

(i) Inspect the target element.

(ii) Go to the computed tab.

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Note 02: Delete

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01.) Color is a Selenium class through which we can convert the RGB value into hexadecimal code.

02.) fromString(String rgb) is static method of color class which returns the object of the color class itself

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Note 02:[Delete](#)

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- 01.) Color is a Selenium class through which we can convert the RGB value into hexadecimal code.
- 02.) fromString(String rgb) is static method of color class which returns the object of the color class itself.
- 03.) asHex() is the Non-static method of color class which returns the Hexa Decimal code for the supplied RGB Value in the form of String.

[Add an item](#) \*\*\*Note 03:[Delete](#)

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- Its always the best practice to compare the colors in the hex color



### \*\*\*Note 03:

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- Its always the best practice to compare the colors in the hex color code format instead of comparing in rgb.

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### Note 04:

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- RGB are primary colors through which any color can be created.
- Highest value is 255 and Lowest value is 0.
- (0, 0, 0) is Black
- (255, 255, 255) is white,



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- (255, 255, 255) is white,
- Hexa Decimal color code is the number used to represent the RGB Value.
- #000000  Perfect Black
- #FFFFFF  Perfect White
- Hexa-decimal value contains 0-9 and ABCDEF. This combination is nothing but hexa-decimal value.

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Assignment 01:

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- Go to the URL: <https://demo.actitime.com/>

## ■ isEnabled()

in list WebElement ⓘ

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### Signature:

public boolean isEnabled()

### Usage:

```
if(ele.isEnabled()) {  
}  
} else {
```



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trello.com/c/nxqjdX6y/97-isenabled

## Description Edit

### Signature:

public boolean isEnabled()

### Usage:

```
if(ele.isEnabled()) {  
} else {  
}
```

### Attachments

**html**

Show the Issue with isEnabled() ↗  
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About: Delete Actions

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isEnabled() method is used to verify, if the target webelement is enabled or not.

The return type of this method is boolean. If it returns true then the target element is enabled otherwise it is disabled.

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Note: Delete Share

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isEnabled() works properly only on input elements i.e. <input> and <button> tags.

If it is called upon any other element then it will return true always

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## Note:

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- isEnabled() works properly only on input elements i.e. <input> and <button> tags.
- If it is called upon any other element then it will return true always through which we will get the element is enabled or not.
- So in such cases we should find the proper work around.

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## Activity

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## isSelected()

in list WebElement

≡ Description Edit

### Signature:

public boolean isSelected()

### Usage:

```
if(ele.isSelected) {  
}  
} else {
```

Suggested

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← → C 🔒 trello.com/c/Vj4z6aP0/98-isselected

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Usage:

```
if(ele.isSelected) {  
} else {  
}  
LINK
```

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- This method is used to verify the status of the radio button or a check box.
- If you use it on other elements then it will give you unpredicted output.
- The return type of this method is Boolean.
- It returns Boolean true if it's selected, false Otherwise.

[Actions](#)[→ Move](#)[□ Copy](#)[▣ Make temp](#)[⌚ Watch](#)[▣ Archive](#)[Add an item](#) **Note 01:**[Delete](#)[🔗 Share](#)

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← → C 🔒 trello.com/c/Vj4z6aP0/98-isselected

Note 01: Delete Share 0%  
 isSelected() method will give unpredicted results if the target element is not a radio button, check box and option of the drop down list box.

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Note 02: Delete 0%  
 If It is used on some other element in that case, it will return false irrespective of whether the target element is selected or not selected.

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## webElement isDisplayed()

in list [WebElement](#)

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Description Edit

Members

**Signature:**

public Boolean isDisplayed()

Labels



Checklist

**Usage:**

Dates



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Checklist

Usage:

```
if (ele.isDisplayed()) {  
} else {  
}
```

Attachments

Registration Year check whether It is displayed or not ↗  
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Username text field ↗  
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## About:

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It is used to check the target web element is displayed(Visible) or not.

Watch

Return type is Boolean.

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True --> Element is present and it is displayed.

Share

False --> Element if it is present but not displayed.

Note 01: It will return false if the web element is present in the webpage, but not displayed in the web page.

Note 02: This method can be used to verify both whether the element is present in DOM (Document Object Model) and displayed.

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## getsize()

in list [WebElement](#)

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[Description](#) [Edit](#)

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### Signature

public Dimension getSize()



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### Usage:

```
Dimension eleDim=ele.getSize();
int Height = eleDim.getHeight();
int Width = eleDim.getWidth();
```

[Labels](#)

[Checklist](#)

[Dates](#)



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trello.com/c/TXNnai9u/91-getsize

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About: Delete

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This method is used to get the size of the target **WebElement**.

It returns the **Dimension** class object.

Using the **Dimension** class object, We can get the height and width of the target **WebElement**, i.e. we have to call **getHeight()** and **getWidth()** of the **Dimension** Object.

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## submit()

in list WebElement

≡ Description Edit

**Signature:**

**public void submit()**

**Usage:**

**ele.submit();**

## Attachments

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It is used to click on the submit button.

Submit button means:

1.) The button element source code should contain attribute called **type = "submit"**.

2.) The **<button>** tag should be the sub tag of **<form>** tag.

**<form>**

**<button type = "submit">**

**<input type = "submit">**

**</form>**

method is called on any other element apart from submit

https://trello.com/c/EaH79tkC/88-submit#

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- </form>
- If the method is called on any other element apart from submit button then it will throw **JavaScriptException** or the action won't be performed.
- This method will click on the submit button and if there is page redirection then it will wait until the next page has got loaded.**

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Note: Delete 0%

**JavaScriptException** is an unchecked exception of selenium which will be thrown when there is mistake in program/script and also when submit() method is not used on the submit button.



## getLocation()

in list WebElement

≡ Description Edit

### Signature:

public Point getLocation()

### Usage:

```
Point eleLocation = ele.getLocation();
int startX = eleLocation.getX();
int startY = eleLocation.getY();
```

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About:

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This method is used to get the Co-ordinates of the target **WebElement**.

It returns the **Point** class object.

Using **Point** class object we can get the X and Y Co-ordinates of the target **WebElement**, i.e. we have to call **getX()** and **getY()** methods of the **Point** class type object.

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# getRect()

in list [WebElement](#)

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Description Edit

## Signature:

```
public Rectangle getRect()
```

Usage:

```
Rectangle eleRect=ele.getRect();
int width = eleRect.getWidth();
int height = eleRect.getHeight();
int startX = eleRect.getX();
int startY = eleRect.getY();
```

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trello.com/c/eZEAszXR/93-getrect

About: Delete

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- This method is used to get both the size and Co-ordinates of the target web element.
- It returns the Rectangle class object.
- Using Rectangle object we can get Size and Co-ordinates i.e. we have to call getHeight(), getWidth(), getX() and getY() methods.

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Dimension, Point and Rectangle are the concrete class of Selenium

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**Dimension, Point** and **Rectangle** are the concrete class of Selenium package. We should always import it from selenium package before using it in the code.

**getX()** and **getY()** always returns the starting X co-ordinate value and starting Y co-ordinate value. We have to calculate the end point.

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\*\* What is the use of **getSize()**, **getLocation()**, **getRect()** methods? Delete

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## \*\* What is the use of getSize(), getLocation(), getRect() methods?

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- All the methods are used to verify the alignments of the target webelements like verification of the left, right and the top alignments on the webpage.
- Sometimes their might be issues when tested on different browsers.

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