

FULL STACK



Automation Testing

FULL STACK

JavaScript in Website



A Day in the Life of an Automation Test Engineer

In the previous lesson, Anna had learnt and understood the various concepts of DOM.

Now, she has to create applications that update data on a page without refreshing it and change the layout of a page without refreshing it by manipulating the DOM.

To achieve the above scenario, she will be learning the getElement methods as well as how to manipulate style, text, and attributes.



Learning Objectives

By the end of this lesson, you will be able to:

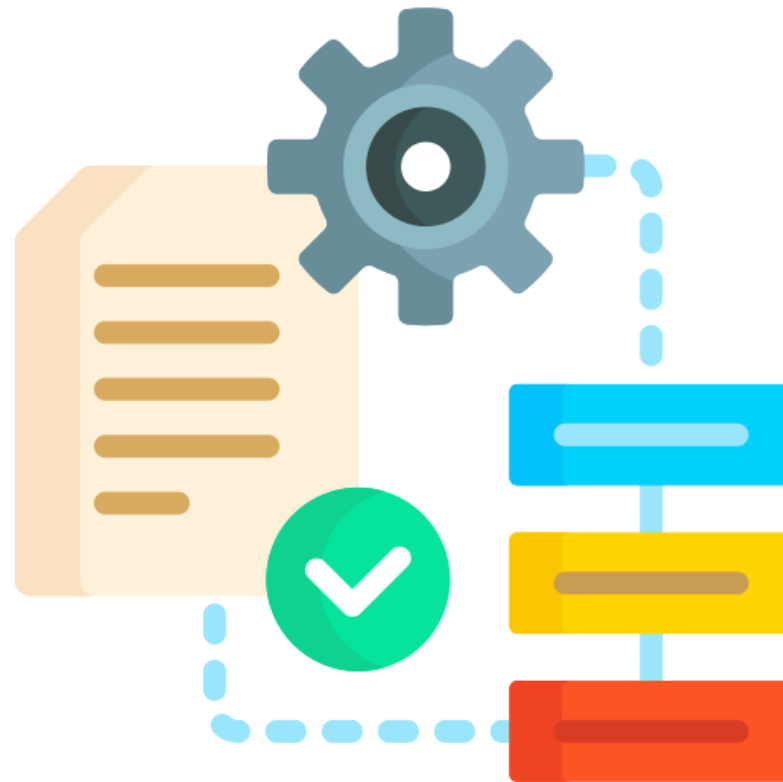
- 👁 List out the different get element methods
- 👁 Analyze style manipulation
- 👁 Comprehend text manipulation
- 👁 Describe attribute manipulation



Get Element Methods

DOM Methods

DOM methods are the actions that users can perform on DOM objects (elements).



Selecting an element, creating a new element, changing the element's content, changing CSS, and removing an element are all DOM methods.

DOM Methods

A number of methods for locating elements within a document are available in JavaScript.
The three methods are listed below:

01

`getElementbyTagName()`

02

`getElementById()`

03

`getElementByClass()`



getElementsByTagName()

The `getElementsByTagName()` returns a collection of all elements that have the specified tag name.

Example:

```
const collection = document.getElementsByTagName("li");
```



getElementById()

The `getElementById()` returns an element object that represents the element with the `id` property specified.

Example:

```
document.getElementById("demo");
```



getElementByClassName()

The `getElementsByClassName()` method returns an array-like object containing all child elements with the specified class names.

Example:

```
const collection = document.getElementsByClassName("example");
```

Using getElement Methods



Problem Statement:

You are asked to use getElement methods.

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to use getElement methods are:

1. Use getElement methods



Style

The style property returns the style attribute values for an element.

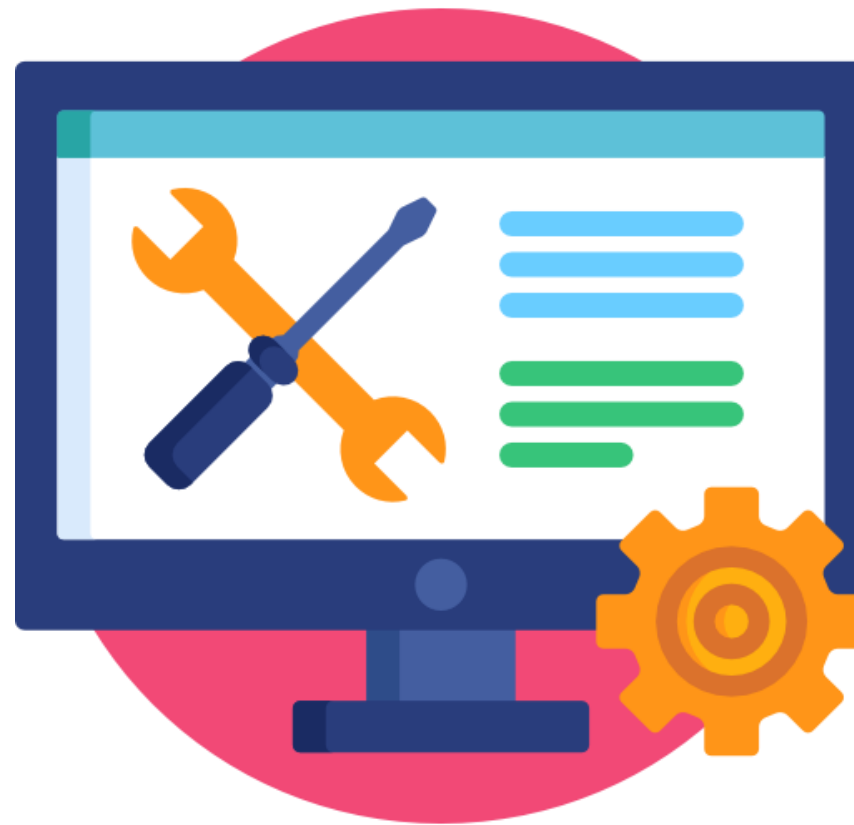


It returns a CSS style declaration object.



Style Manipulation Using jQuery

The jQuery library has several methods for manipulating style properties and CSS classes of DOM elements.



Style Manipulation using jQuery

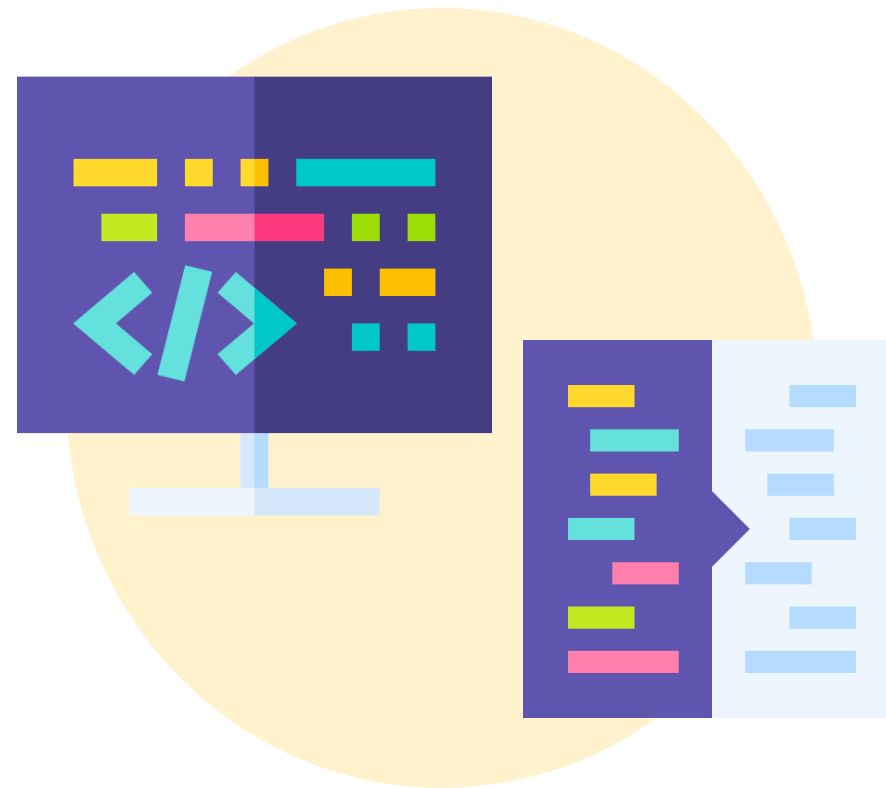
The table below lists jQuery styling and CSS manipulation methods:

jQuery Methods	Description
css()	Gets or sets style properties to the specified elements
addClass()	Adds one or more class to the specified elements
hasClass()	Determines whether any of the specified elements are assigned the given CSS class
removeClass()	Removes a single class, multiple classes, or all classes from the specified elements
toggleClass()	Toggles between adding or removing classes to the specified elements

Text Manipulation



Text manipulation with materials is focused on enhancing text presentation.



Text Manipulation

CSS properties for text manipulation include:



The spacing property is used to increase or decrease the amount of space between the letters in a word and the words in a sentence.



The decoration property is used to highlight, strikethrough, and underline text.



The transform property can be used to capitalize text or convert it to uppercase or lowercase letters.



Text Manipulation

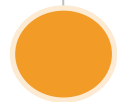
CSS properties for text manipulation include:



The align property is used to align a document's text.



The space property is used to control the flow and formatting of text.

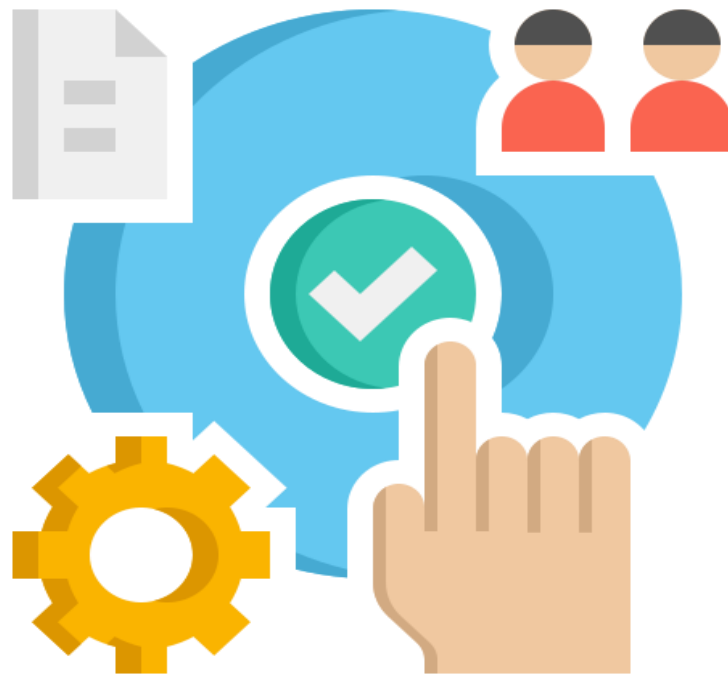


The indent property is used to indent paragraph text.



Attribute Manipulation

Attribute manipulation allows the user to change the attributes of an element by getting, setting, and removing them.



jQuery is widely used to manipulate the attributes of HTML elements.



Attribute Manipulation

The various attribute methods are:

removeAttribute()

It is used to remove an attribute from an element with a specific name.



hasAttribute()

It is used to see if an attribute with a given name exists.

getAttribute()

It is used to get the value of an element's attribute.

setAttribute()

It is used to change the value of an element's attribute.

Key Takeaways

- JQuery CSS methods let users change the CSS class or style properties of DOM elements.
- The CSS style declaration object contains all of the element's inline styles properties.
- The text-transform property can be used to capitalize or convert text to uppercase or lowercase letters.
- Attribute methods, which are native and well-supported, have replaced the attr() and removeAttr() methods in jQuery.

