**Document Object Model**

* We should always write script element at the last section of body element.

**A screenshot of a computer

Description automatically generated**

Dom is represented using this tree model.

A red car with text and blue background

Description automatically generated

In DOM the object has properties and methods with these we can manipulate our objects.

We can manipulate the properties using dot notation

A grey and white logo

Description automatically generatedget property:-

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Description automatically generated

set property:-

A close-up of a grey background

Description automatically generatedMethods:-

Difference between methods and function is that method is associated with the objects where as functions are just bunch of codes that are not assciciated with It.

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Description automatically generated

**Document.queryselector(“”):-** this can select selector and combination of selector , classes and id .This is the best method, and we can directly manipulate the properties.



**Document.queryselectorAll(“”):**-this will select all the elements which is mentioned inside the quotation.this will give an array , for example if I want to give hover properties in nav bar headinings then I will use this property because It will give elements in the forms of array and after that we can give properties through for loop.

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**A close up of a logo

Description automatically generatedDocument.getElementsByTagName(“”**):this will select the html tag elements and return in the form of array.

A screen shot of a computer

Description automatically generatedSo when we try to manipulate the items properties in an array then we will need to give position of items , it cannot directly manipulate the element.

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**Document.getElementsByClassName(“”):-** this will select the particular class which is mentioned inside this.This is also returns and array , so we cannot directly set the property.

**A close-up of a computer code

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**Document.getElementById(“”):-**This will select that id which is unique through the html document and will select only one. In this we can directly manipulate the property.



In CSS we have properties like border-color , background-size etc , we have – properties where as in JavaScript when we write properties then we will need to give in camel case example :- Font-size is in css then in JS it would be FontSize.

And also, the value in css is not enclosed in “”(string), where as in javascript we need to give values in “”(string).

We can also add classes by JavaScript by using

Document.querySelector(“”).classList().add(“”);

In add parentheses add the name of the class then it will automatically add the class name.



Simply we can remove also

Last is the toggle method ,in this it will check whether my class is added or not , if yes then it will remove it and if not then it will add it .

**.Inner html:-**Inner html basically gives all the contents which is present inside that selector

.**text-content:-**Text content gives only the text content not the tag.

Example:-

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We can also write whole html element also inside this inner html .

Now manipulating the html attributes.

**.attribute:-**This will give all the attributes which are been present inside the element.



We can also set attribute value:-

In AddEventListner we try to add the function names without adding any paranthsesis , if we try not to give paranethesis then it will directly triiger the function and will execute the code without any event is happened.

A screen shot of a computer

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A screen shot of a computer program

Description automatically generatedNow writing in the form of anonymous function

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Description automatically generatedAdd event listener is taking two inputs first input is the what event it should listen to eg(onclick,click…)and second input is the function what should it do after that event has happened.

In chrome developer tools we can Debug the code by typing debugger; in console and press sfift enter and write the functions to be debug and then press enter then it will open the debugger mode.



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Constructor Function :- constructor function is a function which is used for taking the inputs and this are the inputs which are been provided when we create an new objects from this constructor function.

A computer code on a blue background

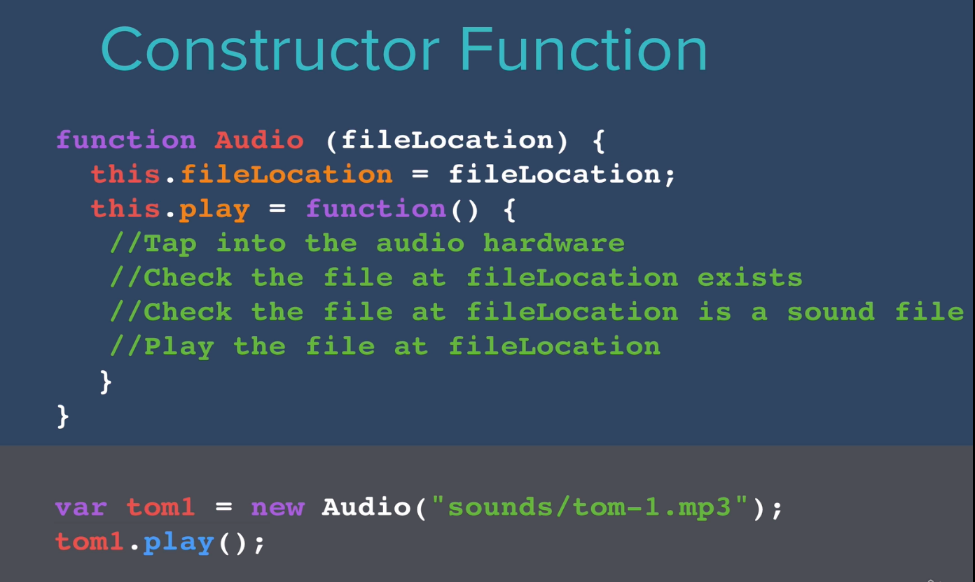
Description automatically generatedInside the constructor function we match the inputs with the property. Constructor function name starts with an capitalization.

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Description automatically generated

A computer code on a blue background

Description automatically generatedWe can also give functions inside the input also .

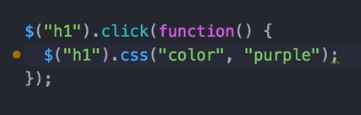
There are some predefined constructor functions like audio constructor function.

In document.query.selectotAll we can’t manipulate the properties directly , as it gives the array. We need a for loop which will traverse then assign the properties .

But this can be handled easily using Jquery.

In J query document.selector or document.selectorAll both is represented by $(“”).





Normal Javascript

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A computer code with colorful text

Description automatically generatedBy jQuery.

We can add new elements and remove elements by JQuery.

* Before()
* After()
* Append()
* Prepend()

Before will add the element before the element.

After will add the element after the element .

Append will add the element before the closing of the tag.

Prepend will add the element after the opening of the closing tag.

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