DOM Document Object Model

- · Find / get
- · change,
- · add, or
- · delete HTML elements.

DOM

- Find / get
- change,
- · add; or
- delete HTML elements.



- DOM Methods getElementById()
- DOM Properties = innerHTML,

DOM

Find / get

- Methods
- _
- Document.getElementById(id) Find element by Id
- Document.getElementsByTagName(name) Find elements by tag name
- Document.getElementsByClassName(name) Find elements by className



DOM

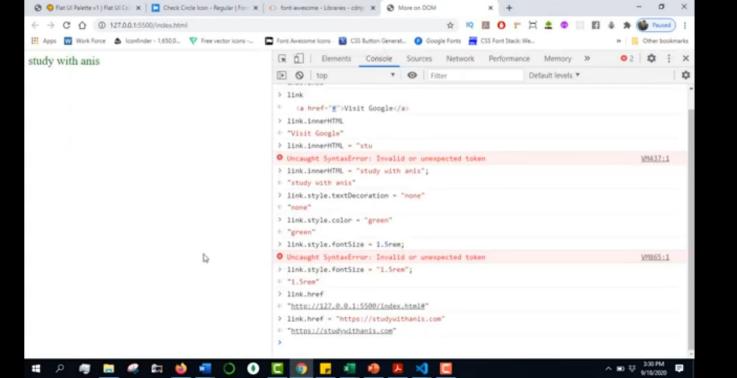
 Changing HTML Elements Property

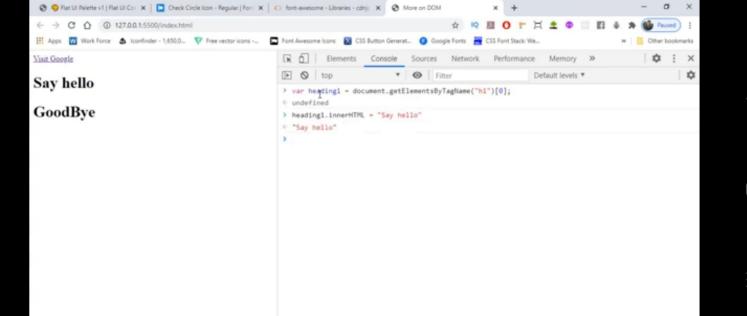
........

- Element.innerHTML = new HTML content
- Element.attribute = new value
- Element.style.property = new style

Method

 Element.setAttribute(attribute, value) - change the attribute value of an html element























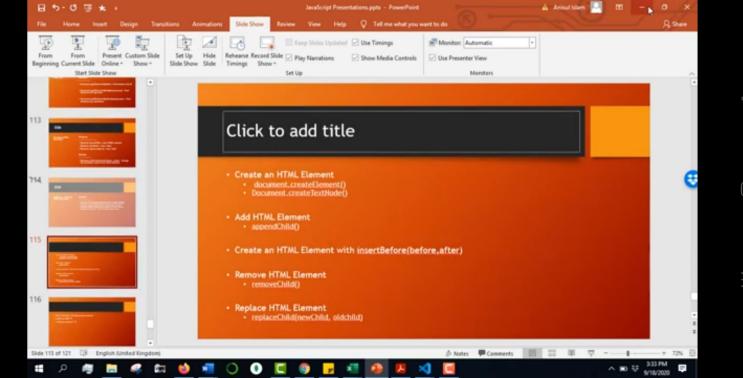


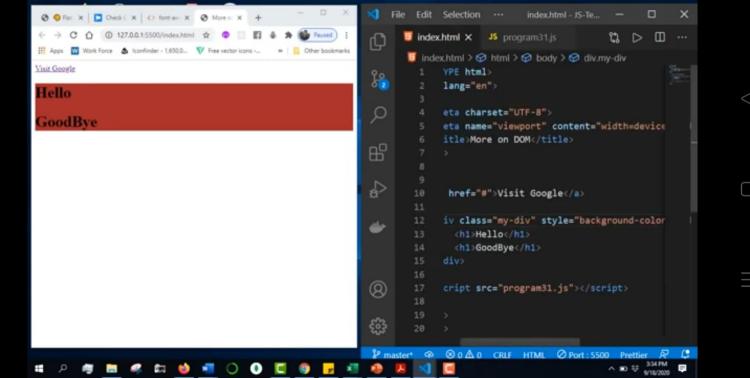


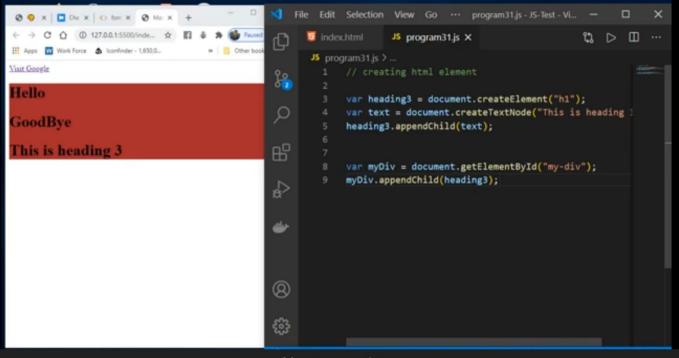






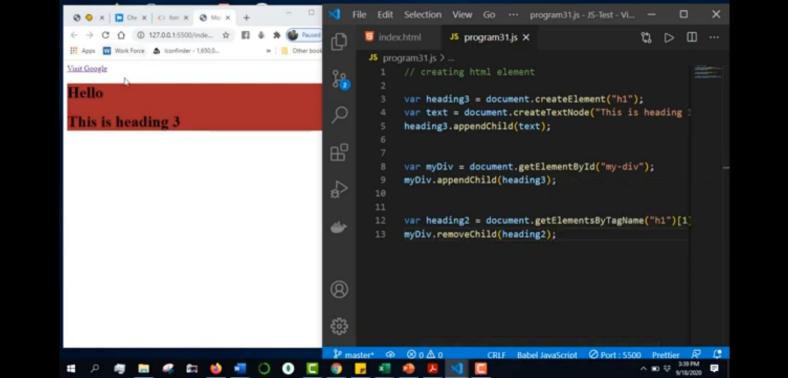




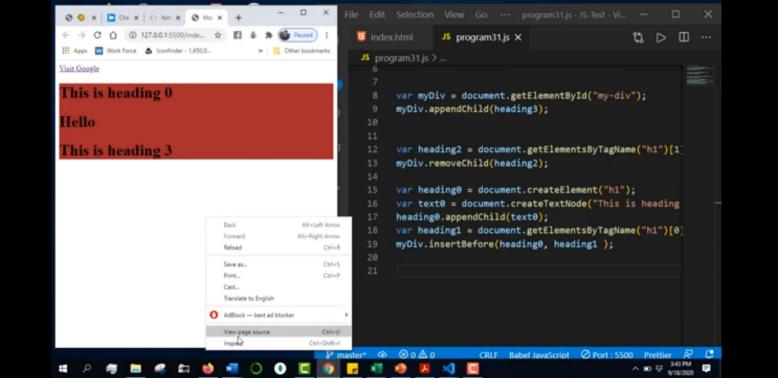


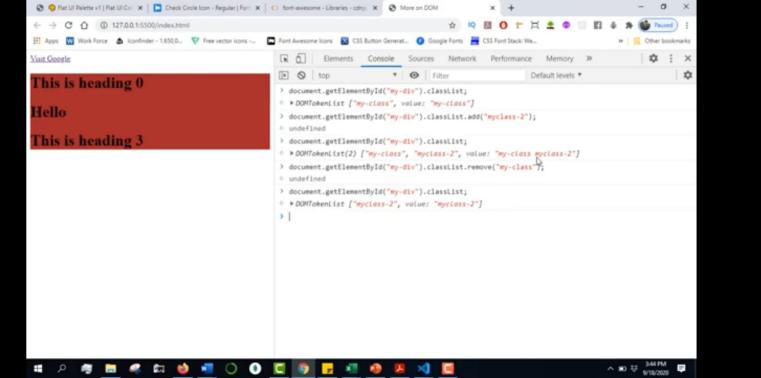
No connection

Remove Element



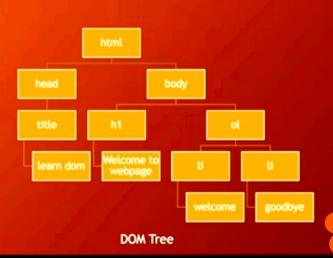
Add a child element at upper section





Traversing & manipulating

- Manipulating creating, inserting, removing elements
- Traversing selecting an element from other elements



How to select DOM elements

selecting DOM Elements

- getElementById,
- 2. getElementsByClassName,
- 3. getElementsByTagName,
- querySelector(),
- querySelectorAll(),



3 direction for traversing

- 1. Downwards
 - querySelector() / querySelectorAll()
 - 2. children
- 2. Upwards
 - 1. parentElement
- 3. Sideways
 - nextElementSibling, previousElementSibling
 - 2. parentElement + children + index



Downwards - querySelector / querySelectorAll

```
<!DOCTYPE html>
<html lang="en">
   <head>
       <title>Document</title>
   </head>
    <body>
        class="student-a">student A
           class="student-b">student B
           class="student-c">student C
       <script src="./index.js"></script>
   </body>
</html>
```

```
const studentsList = document.querySelector(".students-list");
const studentA = document.querySelector(".student-a");
```

```
const studentsList = document.querySelector(".students-list");
const studentA = studentsList.querySelector(".student-a");
```



1. Downwards - childrens

```
<!DOCTYPE html>
<html lang="en">
   <head>
       <title>Document</title>
   </head>
   <body>
       li class="student-a">student A
           class="student-b">student B
           student C
       <script src="./index.js"></script>
   </body>
</html>
```

```
const studentsList = document.querySelector(".students-list");
// studentsList.children
const studentA = studentsList.children[0];
```



2. Upwards - parentElement

```
<!DOCTYPE html>
<html lang="en">
   <head>
       <title>Document</title>
   </head>
    <body>
       class="student-a">student A
           class="student-b">student B
           class="student-c">student C
       <script src="./index.js"></script>
    </body>
</html>
```

const studentA = document.querySelector("li"); const studentsList = studentA.parentElement;



3. sideways - nextElementSibling, previousElementSibling

```
<!DOCTYPE html>
<html lang="en">
   <head>
       <title>Document</title>
   </head>
   <body>
       class="student-a">student A
           class="student-b">student B
           class="student-c">student C
       <script src="./index.js"></script>
   </body>
</html>
```

```
const studentA = document.querySelector("li");
const studentB = studentA.nextElementSibling;
const studentC = studentB.nextElementSibling;
```

```
const studentC = document.querySelectorAll("li")[2];
const studentB = studentC.previousElementSibling;
```



3. sideways - parentElement + children + index

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Document</title>
    </head>
    <body>
        class="student-a">student A
            li class="student-b">student B
           class="student-c">student C
        <script src="./index.js"></script>
    </body>
</html>
```

```
const studentA = document.querySelector("li");
const studentsList = studentA.parentElement;
const studentC = studentsList.children[2];
```