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Assignment 6 20^a August 2023

Module 2 : Front End Development (JS_Web)

Submission Requirements: Please upload your codes in PDF File on Google Classroom in the relevant Assignment section.

Note: Plagiarism is a serious violation. Zero marks will be awarded in case plagiarism is found. You are required to perform the following tasks.

Class Questions:

• Remove direct text placed inside a div.

Solution:

Mujtaba

Ahmad

• Add/Remove text in an element based on hover and blur on button respectively.

Solution:

Part 1:

• Use document.getElementById(id) to find an element with a specific ID and store it in a variable.

Solution:

```
// task_1

const first = document.getElementById('first');

console.log(first);
```

• Utilize document.getElementsByTagName(name) to find all elements with a specific tag name and log them to the console.

Solution:

```
<!-- Task_2 -->
<h1>Ahmad</h1>
<h1>Mujtaba</h1>
<h1>Kainat</h1>
```

```
// task_2
console.log(document.getElementsByTagName('h1'));
```

• Use document.getElementsByClassName(name) to find all elements with a specific class name and apply a CSS style to each of them.

Solution:

```
// task_3
const task_3 = document.getElementsByClassName('para');
// console.log(task_3[0]);
task_3[1].style.color = "red";
```

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Muhammad Huzaifa

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• Change the inner HTML of an element with element.innerHTML to display new content when a button is clicked.

Solution:

• Update the value of an attribute in an HTML element using the element.attribute property based on user input.

Solution:

• Create a function that changes the background color of an element using the element.style.property.

Solution:

• Create a button that, when clicked, uses element.setAttribute(attribute, value) to modify the 'src' attribute of an image.

```
<!-- Task_7 -->
<button id="changeImage" onclick="replaceImage()">Click Here to change Image</button>
<img id="imageChange" src="./son-helping-his-father-wheelchair-near-nursing-home.jpg" alt="Care" width="40%">
```

```
// task_7
const replaceImage = () =>{
    const element = document.getElementById('imageChange');
    element.setAttribute('src', './ruben-leija-jY_knL-TVvA-unsplash.jpg')
}
```



Click Here to change Image



Click Here to change Image

• Develop a form where users can input their name and a message. On submission, use element.innerHTML to display a personalized message.

```
//task_8
const display =() =>{
   const elem = document.getElementById('customMessage');
   elem.innerText = 'Thanks for submitting your Response';
}
```

Thanks for submitting your Response



• Build a list of items with checkboxes. When a checkbox is clicked, use element.style.property to strike through the item's text.

```
<!-- Task_9 -->
<label id="book" for="bookreading">Book Reading</label>
<input type="checkbox" name="bookreading" onclick="strike()"><br>
<label id="cric" for="cricket">Cricket</label>
<input type="checkbox" name="cricket" onclick="strike1()"><br>
<label id="foot" for="football">Football</label>
<input type="checkbox" name="football" onclick="strike2()"><br>
<label id="photo" for="photography">Photography</label>
<input type="checkbox" name="photography" onclick="strike3()"><br>
<label id="movie" for="movies">Movies</label>
<input type="checkbox" name="movies" onclick="strike4()"><br>
<input type="checkbox" name="movies" onclick="strike4()"><br>
<input type="checkbox" name="movies" onclick="strike4()"><br/>
<input type="checkbox" name="movies" onclick="strike4()">
```

```
const strike = ()=>{
   const eleme = document.getElementById('book');
   eleme.style.border='3px solid black';
}
const strike1 = ()=>{
   const eleme = document.getElementById('cric');
   eleme.style.border='3px solid black';
}
const strike2 = ()=>{
   const eleme = document.getElementById('foot');
   eleme.style.border='3px solid black';
}
const strike3 = ()=>{
   const eleme = document.getElementById('photo');
   eleme.style.border='3px solid black';
}
const strike4 = ()=>{
   const eleme = document.getElementById('movie');
   eleme.style.border='3px solid black';
}
```

```
Book Reading Cricket Football Photography
```

• Use document.createElement(element) to create a new paragraph element and append it to an existing div.

Solution:

```
<!-- Task_10 -->
<div id="exist">
    Already Existing Div.
</div>
```

```
// task_10
const newElement = document.createElement('p').innerHTML = 'Appending new Paragraph';
document.getElementById('exist').append(newElement);
```

Already Existing Div. Appending new Paragraph

• Create a button that, when clicked, removes a specific list item using document.removeChild(element).

Solution:

- Lahore
- Islamabad
- Karachi
- Sukkur

- Lahore
- Islamabad
- Karachi

Remove Item

Remove Item

• Implement a feature that adds a new list item to an existing unordered list using document.appendChild(element).

```
// task_12
const new_Element = document.createElement('li');
new_Element.innerHTML = 'Huzaifa Added';
document.getElementById('add_Item').appendChild(new_Element);
```

- Waqas
- Shaani
- Butt
- Huzaifa Added
- Replace an existing image on a webpage with a new image by using document.replaceChild(new, old).

```
// task_13
const parent = document.getElementById("parent");
const oldChild = document.getElementById("oldChild");
const repChild = document.createElement('img');
repChild.src = './nature-landscape-hd-usqznq19dscdjkf8.jpg'
repChild.style.width = '35%';
parent.replaceChild(repChild, oldChild);
```



• Design a page with two sections. Upon clicking a button, swap the positions of these sections using the document.replaceChild(new, old) method.

```
// Task_14
const swap=()=>{
    const parent = document.getElementById('sectionSwap');
    const sec1 = document.getElementById('sec_one');
    const sec2 = document.getElementById('sec_two');
    parent.replaceChild(sec2, sec1);
    parent.replaceChild(sec1, sec2);
}

Left Side

Right Side

Left Side
```

• Create a simple website layout with placeholders. Use JavaScript to replace these placeholders with actual content using document.replaceChild(new, old).

Solution:

• Create a button on a webpage. Attach an event listener using addEventListener to change the button's text to "Clicked!" when it's clicked.

```
<
```

Click Me!

Changed Text

 Design an image that changes its source to another image when hovered over by the mouse pointer. Use the mouseover and mouseout events to achieve this effect.

```
// Task_16
const magic=()=>{
    const prevImg = document.getElementById('prevImg');
    prevImg.src = './omar-ram-xH6zaxF3k6Q-unsplash.jpg'
}
const magicBack=()=>{
    const prevImg = document.getElementById('prevImg');
    prevImg.src = './jannes-glas-0NaQQsLWLkA-unsplash.jpg';
}
```







• Build a registration form with input fields for name, email, and password. Use the submit event on the form to validate that the password is at least 8 characters long. Display an error message if the validation fails.

Solution:

```
<
```

• Create a text input field. Use the keydown event to count and display in real-time the number of characters entered in the input field. Update the count as the user types.