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# Assignment 6 20 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

**Class Questions (Task 1)** 

Remove direct text placed inside a div

Direct text here...

heading 1

heading 2

### **Class Questions (Task 1)**

Remove direct text placed inside a div

heading 1

heading 2

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

**Class Questions (Task 2)** 

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

Hover On

Text should be removed when you blur the button

Blur On

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

### **Text Added**



# Part 1:

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

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

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

### heading 1

### heading 2

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

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



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

### Task 4

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



### Task 4

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



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

Task 5

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

Enter something

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

Task 6

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

twist

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

Task 7

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



### Task 7

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





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

```
<h1 class="heading">Task 8</h1>
  <h3>Develop a form where users can input their name and a message. On
  submission, use element.innerHTML to
      display a personalized message</h3>
      <form>
          <label for="name">Enter your name <input type="text" name="name"</pre>
          id="getName"
          placeholder="name here"></label>
           <label for="name">Enter your message <input type="text" name="name"</pre>
           id="getMsg"
           placeholder="message here"></label>
           <button onclick="perMsg()">Submit</button>
           <h1 id="display"></h1>
      </form>
  </div>
  <script>
      const perMsg = () => {
      document.getElementById('display').innerHTML = 'Your response has been
      submitted!';
      };
  </script>
/div>
```

Task 8

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

Enter your name name here

Enter your message message here

Task 8

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

Enter your name name here

Enter your message message here

Submit

### Your response has been submitted!

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

```
<div>
    <h1 class="heading">Task 9</h1>
    <h3>Build a list of items with checkboxes. When a checkbox
    is clicked, use element.style.property to strike
        through the item's text</h3>
    <div>
        <01>
             <h3>Select your destination</h3>
             <
                  <label id="country_1" for="country_1"><input</pre>
                  onclick="style 1()" type="checkbox"
                  name="country_1">Pakistan</label>
             <1i>>
                  <label id="country_2" for="country_2"><input</pre>
                  onclick="style 2()" type="checkbox"
                  name="country_2">Turkey</label>
             <label id="country_3" for="country_3"><input onclick="style_3()"</pre>
             type="checkbox"
             name="country_3">Korea</label>
         </div>
  <script>
      const style_1 = () => {
         const Style = document.getElementById('country_1');
         Style.style.textDecoration = 'line-through';
      };
      const style_2 = () => {
         const Style = document.getElementById('country_2');
         Style.style.textDecoration = 'line-through';
      };
      const style_3 = () => {
         const Style = document.getElementById('country_3');
         Style.style.textDecoration = 'line-through';
      };
   </script>
```

Task 9

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

- 1. Pakistan
- 2. Turkey
- 3. Korea

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

Select your destination

- 1. Pakistan
- 2. Turkey
- 3. Korea

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

### Task 10

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

- => This is the appended data: 12345678
- Create a button that, when clicked, removes a specific list item using document.removeChild(element).

```
<h1 class="heading">Task 11</h1>
   <h3>Create a button that, when clicked, removes a specific list item using document.
   removeChild(element)</h3>
       <button onclick="remove()">Click Me!</button>
       Header
          Main
          Footer
      </div>
   <script>
       const remove = () => {
          const toRemove = document.getElementById('items');
          toRemove.removeChild(toRemove.children[1])
   </script>
</div>
```

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



3. Footer

## Task 11

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



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

Task 12

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

- Header
- Main
- Footer
- Sidebar
- Replace an existing image on a webpage with a new image by using document.replaceChild(new, old).

```
<h1 class="heading">Task 13</h1>
   <h3>Replace an existing image on a webpage with a new image by using document.
   replaceChild(new, old)</h3>
   <div id="replaceImage">
       <img id="preImg" class="image" src="cat.jpg" alt="cat">
   </div>
   <script>
       const replaceImage = document.getElementById('replaceImage');
       const oldImage = document.getElementsById('"preImg')
       const newImage = document.createElement('img');
       newImage.src = "flower.jpg";
       newImage.className = 'image';
       newImage.alt = 'flower';
       replaceImage.replaceChild(newImage , oldImage);
   </script>
</div>
```

Task 13

Replace an existing image on a webpage with a new image by using document.replaceChild(new, old)



Replace an existing image on a webpage with a new image by using document.replaceChild(new, old)



• 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

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

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



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

# Welcome to our Website Home About Services Contact Us About Us We are a company dedicated to providing top-notch services to our clients.

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

Task 16

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



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

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.

```
<h1 class="heading">Task 17</h1>
<h3>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</h3>
   <img class="image" id="hoverOn" src="cat.jpg" >
</div>
<script>
   const hover = document.getElementById('hoverOn');
   const originalSrc = hover.src;
    const newSrc = 'flower.jpg';
   hover.addEventListener('mouseover', () => {
       hover.src = newSrc;
    }):
   hover.addEventListener('mouseout', () => {
       hover.src = originalSrc;
    });
 /script>
```

Task 17

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



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



• 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.

```
<h1 class="heading">Task 18</h1>
   <h3>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</h3>
      <form id="regForm">
          <label for="name">Enter your name <input type="text" name="name" id="getName"</pre>
          placeholder="name here"></label>
          <label for="email">Enter your email <input type="email" name="email"</pre>
          id="getemail" placeholder="email here"></label>
          <label for="password">Enter password <input type="password" name="password"</pre>
          id="getpass" placeholder="password here"></label>
          <input type="submit" value="Register">
          <span id="error"></span>
      </form>
        <script>
             const regForm = document.getElementById('regForm');
             const password = document.getElementById('getpass');
             const error = document.getElementById('error');
             regForm.addEventListener('submit', function(event) {
                  const passwordValue = password.value;
                  if (passwordValue.length < 8) {</pre>
                       const error = document.getElementById('error');
                       error.innerHTML = 'Password must be atleast 8 char!';
                       event.preventDefault();
        </script>
    </div>
</div>
```

Display an error message if the	validation fails
Enter your name name here	
Enter your email email here	
Enter password password here	
Register	
	Task 18
Build a registration form with in Display an error message if the v	put fields for name, email, and password. Use the submit event on the form to validate that the password is at least 8 characters long validation fails
Enter your name riffat	
Enter your email riffat@gmail.com	
Enter password •••	
Register Password must be atleast 8 c	har!

• 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.

```
<h1 class="heading">Task 19</h1>
   <h3>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 type</
   <label for="textInput">Type something <input type="text" id="textInput"</pre>
   placeholder="start typing"></label>
   Character count : 0
<script>
   const inputField = document.getElementById('textInput');
   const CountDisplay = document.getElementById('Count');
   inputField.addEventListener('keydown', function(event){
       const text = inputField.value;
       const Count = text.length;
       CountDisplay.textContent = `Character count: ${Count}`;
   });
 /script>
</div>
```

### Task 19

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 type

Type something start typing

Character count: 0

### Task 19

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 type

Type something FERGG434

Character count: 8