20CYS202

LABSHEET 7

BY

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All using getElementByld Method

Exercise 7.1

How can you use onclick to dynamically toggle the text of a button between "Show" and "Hide"?

Hide

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>labsheet 7</title>
   <script>
        function toggle(){
            let button = document.getElementById('toggleButton');
            if(button.innerHTML === "Show"){
                button.innerHTML = "Hide";
            }else{
                button.innerHTML = "Show";
   </script>
</head>
   <button id="toggleButton" onclick="toggle()">Hide</button>
</body>
</html>
```

Write an example where clicking a button changes the background color of a <div>.

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>labsheet 7</title>
       #colorDiv{
           width: 200px;
           height: 200px;
           background-color: ■lightcoral;
   <script>
       function changeColor(){
           document.getElementById('colorDiv').style.backgroundColor = 'red';
   <div id="colorDiv"></div>
   <button onclick="changeColor()">change color</button>
</body>
      6
                 🔒 labsheet 7
                                                \times +
            (i) 127.0.0.1:5500/UI/labsheet7.html
  change color
```

Guess a number between 1 and 10. Display a message indicating whether the user won or lost. Also, show the total number of attempts made to win.

```
!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>labsheet 7</title>
       let randomNumber = math.floor(math.random() * 10) + 1;
       let attempts = 0;
       function checkGuess(){
           let userguess = document.getElementById('guess').value;
           attempts++;
           if(userguess == randomNumber){
               document.getElementById('result').innerText = "Congrats! you guessed the correct number.";
               document.getElementById('result').innerText = "Sorry, try again";
           document.getElementById('attempts').innerText = "Total attempts: " + attempts;
<body>
   <h2>Guessing Game</h2>
   Guess a number between 1 and 10: \langle p \rangle
   <input type="number" id="guess" min="1" max="10">
   <button onclick="checkGuess()">Submit</button>
```

Guessing Game

Guess a number between 1 and 10:

3 Submit

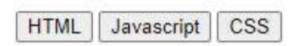
How would you change the font size of a heading (<h1>) with the ID "mainTitle " to 36px using getElementById()?

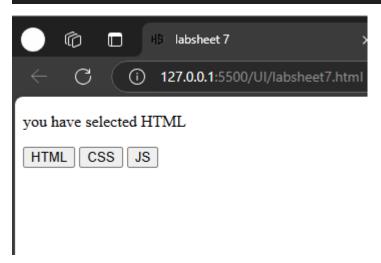
this is the main title

change Font Size

Reveal the button names when clicked using getElementById

You have selected





Display the eligibility message when the check eligibility button is clicked using getElementById method.

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>labsheet 7</title>
    <script>
        function checkEligibility(){
           const age = document.getElementById('age').value;
           const message = document.getElementById('message');
           if(age >= 18){
               message.innerText = "you are eligible to vote.";
           }else{
               message.innerHTML = "you are not eligible to vote.";
    </script>
   <label for="age">Enter your age: </label>
   <input type="number" id="age" min="1">
   <button onclick="checkEligibility()">check Eligibility
   </body>
</html>
       C
              (i) 127.0.0.1:5500/UI/labsheet7.html
Enter your age: 3
                                      check Eligibility
```

you are not eligible to vote.

Display the difference between the 2 dates selected.

```
(!DOCTYPE html)
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>labsheet 7</title>
       function calculateDiffrence(){
           const startDate = new Date(document.getElementById('startDate').value);
           const endDate = new Date(document.getElementById('endDate').value);
           if(startDate && endDate){
               const Diffrence = endDate - startDate;
               const diffrenceInDates = Diffrence / (1000 * 3600 * 24);
               document.getElementById('result').innerText = `the diffrence is ${diffrenceInDates} days.
   </script>
   <h1>Date Diffrence Calculator</h1>
   <label for="startDate">Start Date: </label>
   <input type="date" id="startDate">
   <label for="endDate">End Date: </label>
   <input type="date" id="endDate">
   <button onclick="calculateDiffrence()">Calculate Diffrence</button>
```

Date Diffrence Calculator

the diffrence is 14 days.