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#### LAB CHALLENGE 6

## **C5: QUESTION BANK**

1. Create a simple HTML form with an input field (id: username) and a button (id:

checkButton). Write a JavaScript function that:

- a. Gets the value entered in the username input field.
- b. Displays an alert saying "Welcome, <username>!" when the button is clicked.
- c. If the field is empty, display an alert saying "Please enter your username."

```
}
</script>
</body>
</html>
```

# Screenshot

Fig. 1

Username: parshymodi Submit

Fig. 2

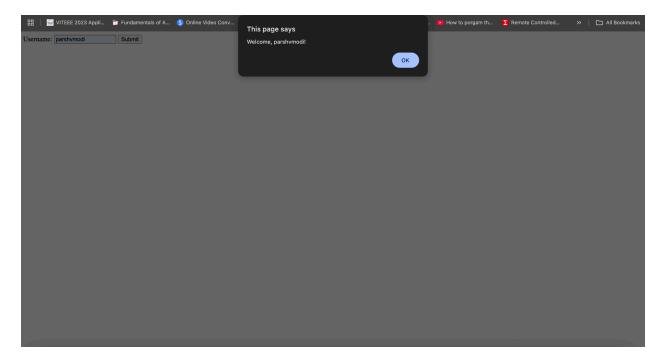
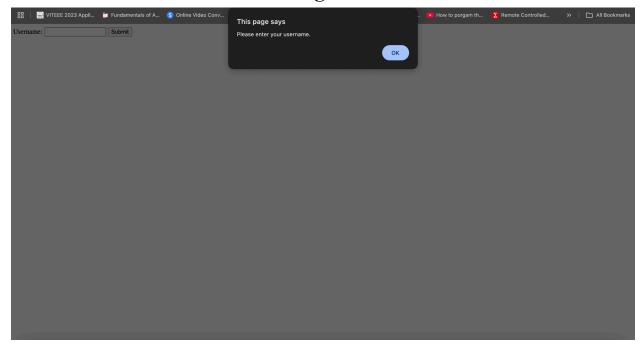


Fig. 3



- 2. Given a paragraph element with id infoText, and a button with id toggleBtn, write
- JavaScript code to:
- a. Toggle the visibility of the paragraph each time the button is clicked.
- b. Change the button text to "Hide" when the paragraph is visible and to "Show"

when it is hidden.

```
HTML
<!DOCTYPE html>
<head>
   <title>Toggle Visibility</title>
</head>
<body>
   This toggle button was created by 23BCE10807.
   <button id="toggleBtn" onclick="toggleVisibility()">Hide</button>
   <script>
       function toggleVisibility() {
           var paragraph = document.getElementById("infoText");
           var button = document.getElementById("toggleBtn");
           if (paragraph.style.display === "none") {
               paragraph.style.display = "block";
               button.innerHTML = "Hide";
           } else {
               paragraph.style.display = "none";
               button.innerHTML = "Show";
           }
       }
   </script>
</body>
</html>
```

**Screenshot** 

Show

Fig. 2

This toggle button was created by 23BCE10807.

Hide

- 3. Create a HTML page for following exercise and write a JavaScript program that performs the following DOM operations on a web page:
- a. Changes the text of an element with the id title to "JavaScript DOM Example".
- b. Adds a new element with the text "New Item" to an unordered list with the id itemList.
- c. Changes the background color of all elements with the class highlight to yellow.

```
HTML
<!DOCTYPE html>
<head>
   <title>DOM Manipulation</title>
</head>
<body>
   <h1 id="title">Old Title</h1>
   ul id="itemList">
       Item 1
       Item 2
   <div class="highlight">This is highlighted.</div>
   <div class="highlight">This is also highlighted.</div>
   <script>
       document.addEventListener("DOMContentLoaded", function() {
       document.getElementById("title").innerText = "Javascript DOM Example";
       console.log("Title changed to: ",
document.getElementById("title").innerText);
       // const newItem = document.createElement('li');
       // newItem.innerText = "Item added by JavaScript";
       // document.getElementById('itemlist').appendChild(newItem);
```

```
// console.log("New item added to the list: ", newItem.innerText);
        const itemList = document.getElementById('itemList');
        var newItem = document.createElement('li');
        newItem.innerText = "New Item";
        itemList.appendChild(newItem);
        console.log("New item added:", newItem.innerText);
        const highlightedElements = document.querySelectorAll('.highlight');
        highlightedElements.forEach(function(element) {
            element.style.backgroundColor = "yellow";
            console.log('Element ${index + 1} background color changed to
yellow');
       });
    });
    </script>
</body>
</html>
```

### **Screenshot**

# Fig. 1

#### **Javascript DOM Example**

- Item 1
   Item 2
   New Item