Lab Assessment 12

# Explanation of JavaScript Concepts Used

This assessment demonstrates the use of JavaScript concepts within an HTML form for basic user interaction and validation. Below is a detailed explanation of the concepts used in the code:

## 1. Form Elements and DOM Manipulation

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|  | The HTML form includes input fields and a button, which interact with JavaScript to perform validation. JavaScript is used to: - Access form elements using their IDs via the `document.getElementById()` method. - Retrieve user input values from text fields. |

## 2. Functions and Event Handling

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| The function `s()` is defined to handle the button's click event. This demonstrates: - The use of a `button` element with an `onclick` attribute to trigger the function. - A function's ability to process user inputs and perform conditional checks. |  |

## 3. Conditional Statements

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|  | The `if-else` statement is used to evaluate the user-provided input against predefined credentials: - If the username is "fast" and the password is "123", an alert displays "Login success". - Otherwise, the user is notified with "Permission denied". This demonstrates logical comparison using the `===` operator. |

## 4. Alerts

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| Alerts are used to provide feedback to the user. Based on the input validation result, an appropriate message is displayed using the `alert` method. |  |

## Code:

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Document</title>  </head>  <body>  <center>  <form>  <p>Username</p>  <input type="text" name="" id="input1">  <p>Password</p>  <input type = "text" id = "input2">  <p>Submit button</p>  <button type = "button" onclick = "s()" >Submit</button>  </form>  </center>  <script>  function s() {  var x = document.getElementById("input1").value;  var y = document.getElementById("input2").value;  if(x === 'fast' && y === '123') {  alert("Login success");  }  else {  alert("Permission denied");  }  }  </script>  </body>  </html> |

## Output:

If username and password is correct:

|  |  |
| --- | --- |
| **INPUT** | **OUTPUT** |
|  |  |

If username and password is correct:

|  |  |
| --- | --- |
| **INPUT** | **OUTPUT** |
|  |  |

## Conclusion:

This assessment showcases JavaScript's role in form handling, including retrieving user inputs, validating data, and providing feedback. These techniques are fundamental for creating interactive and user-friendly web applications.