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| **Session** | **2024-25 (ODD)** | | **Course Name** | **Web Technology Lab** | |
| **Semester** | **3** | | **Course Code** | **23CT1301** | |
| **Roll No** | **53** | | **Name of Student** | **Kartik Sheshraoji Tale** | |
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| Practical Number | | 8 | | | |
| Course Outcome | | 1. Understand various internet technologies. 2. Design the web pages using HTML and CSS. 3. Implement the XML technology to store the data. 4. Develop the interactive web pages using JavaScript. | | | |
| Aim | | Aim: Write JavaScript to validate the following fields of the admission Registration page. | | | |
| Problem Definition | | The program aims to **validate user input** on an admission registration page using JavaScript. It checks whether the entered data in fields like Name, Age, Email, and Phone Number is correct and meets the required conditions.This ensures that the form captures **accurate and complete data** before submission, preventing errors and invalid entries. | | | |
| Theory  (100 words) | | JavaScript provides **loops, conditional statements, and functions** to validate input.   * **Loops** (for/while) can check multiple inputs or perform repeated validations. * **Conditional statements** (if, else if, else) help in making decisions based on field values. * **Functions** are reusable blocks that validate each field individually. Validation ensures data integrity, prevents errors, and improves user experience. | | | |
| Procedure and Execution  (100 Words) | | Step for Implementation:  1. Create the HTML form with fields like Name, Age, Email, and Phone Number.  2. Write a **JavaScript function** for validation.  3. Use **conditional statements** to check each field:   * Name should not be empty. * Age should be a valid number within range. * Email should have correct format. * Phone number should have 10 digits.   4. Optionally, use **loops** to validate multiple similar fields.  5. Show **error messages** if any field is invalid.  6. If all validations pass, allow form submission. | | | |
| Code:  **<!DOCTYPE html>**  **<html>**  **<head>**  **<title>Admission Registration Form Validation</title>**  **<script>**  **function validateForm() {**  **let name = document.getElementById("name").value;**  **let email = document.getElementById("email").value;**  **let mobile = document.getElementById("mobile").value;**  **let password = document.getElementById("password").value;**  **let confirm = document.getElementById("confirm").value;**  **if (name == "" || email == "" || mobile == "" || password == "" || confirm == "") {**  **alert("All fields are required!");**  **return false;**  **}**  **let emailPattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;**  **if (!email.match(emailPattern)) {**  **alert("Please enter a valid Email ID!");**  **return false;**  **}**  **if (mobile.length != 10 || isNaN(mobile)) {**  **alert("Please enter a valid 10-digit Mobile Number!");**  **return false;**  **}**  **if (password.length < 6) {**  **alert("Password must be at least 6 characters long!");**  **return false;**  **}**  **if (password != confirm) {**  **alert("Passwords do not match!");**  **return false;**  **}**  **alert("Registration Successful!");**  **return true;**  **}**  **</script>**    **</head>**  **<body>**  **<h2>Admission Registration Form</h2>**  **<form onsubmit="return validateForm()">**  **<label>Full Name:</label><br>**  **<input type="text" id="name"><br><br>**  **<label>Email:</label><br>**  **<input type="text" id="email"><br><br>**  **<label>Mobile Number:</label><br>**  **<input type="text" id="mobile"><br><br>**  **<label>Password:</label><br>**  **<input type="password" id="password"><br><br>**  **<label>Confirm Password:</label><br>**  **<input type="password" id="confirm"><br><br>**  **<input type="submit" value="Register">**  **</form>**  **</body>**  **</html>** | | | |
| Output: | | | |
| Output Analysis | | The program displays error messages for invalid inputs and prevents form submission until all fields are correctly filled. This ensures only **valid and accurate data** is submitted, demonstrating the correct use of functions, conditions, and loops in JavaScript for form validation. | | | |
| Link of student Github profile where lab assignment has been uploaded | | <https://github.com/kartiktale12/WebTechnology> | | | |
| Conclusion | | JavaScript validation improves data accuracy and **prevents incorrect form submission**.Using **functions, loops, and conditional statements** makes the program organized, reusable, and efficient for checking multiple fields. | | | |
| Plag Report (Similarity index < 12%) | | 9% | | | |
| Date | | 27/10/2025 | | | |