**Artificial Intelligence and Data Science Department**

**Subject/Odd Sem 2023-23/Experiment 5**

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**Title of Experiment :Personal portfolio.**

**Objective of Experiment : The objective of this code is to create a web page with a contact form that, when submitted, captures user input, validates it, and logs the data with the submission date. Additionally, the page displays the current date when loaded.**

**Outcome of Experiment : The expected outcome is that users can submit the form, and their data is collected and displayed on the console. The page also shows the current date upon loading, serving as a basic example of form handling and date display in web development.**

**Problem Statement : Enhance your personal website that you made in Experiment 01-04 using JavaScript features like Functions, Validations, Arrays, String, Date.**

**Description / Theory :**

○ **Event Handling**:

1. **Objective**: Implement event handling for form submission and page load events.
2. **Used Features**:
   1. **addEventListener**: Attaching event listeners to elements (e.g., form and window).
   2. **event.preventDefault()**: Preventing the default form submission behavior.

○ **Form Handling**:

i. **Objective**: Capture and validate user input from the contact form. ii. **Used Features**:

1. **getElementById**: Retrieving elements from the DOM by their IDs.
2. Accessing form element values:

**document.getElementById('elementId').value**.

1. Basic input validation with conditional statements.

○ **Date Manipulation**:

1. **Objective**: Display the current date in a user-friendly format.
2. **Used Features**:
   1. **Date** object: Creating a JavaScript Date object to capture the current date.
   2. **toLocaleDateString()**: Formatting the date into a desired format.
   3. Updating HTML content: Modifying the text content of an HTML element.

○ **Console Logging**:

1. **Objective**: Log form data to the console for debugging and data capture.
2. **Used Features**:

1. **console.log()**: Outputting information to the browser's console.

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○ **DOM Manipulation**:

1. **Objective**: Clear form fields after submission.
2. **Used Features**:

1. **document.getElementById('elementId').value = ''**: Clearing form field values by setting them to an empty string.

○ **User Alerts**:

1. **Objective**: Provide feedback to the user with alert messages.
2. **Used Features**:

1. **alert()**: Displaying pop-up alert messages to the user.

These features collectively enable the code to handle form submissions, display the current date, and provide user feedback. It serves as a practical example of working with JavaScript in a web development context.

**Program :**

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| function submitForm(event) { event.preventDefault(); // Prevent the form from submitting by default  const name = document.getElementById('name').value; const email = document.getElementById('email').value; const message = document.getElementById('message').value;  if (!name || !email || !message) {  alert('Please fill in all fields.'); return; } const submissionDate = new Date();  const formData = { name, email, message, submissionDate,  }; console.log('Form Data:', formData);  document.getElementById('name').value = ''; document.getElementById('email').value = ''; document.getElementById('message').value = '';  alert('Form submitted successfully!');  }  function displayCurrentDate() { const currentDateElement = document.getElementById('currentDateDisplay'); const currentDate = new Date();  const options = { year: 'numeric', month: 'long', day: 'numeric' }; const formattedDate = currentDate.toLocaleDateString('en-US', options); currentDateElement.textContent = `Current Date: ${formattedDate}`; |

}

const form = document.getElementById('contactForm'); form.addEventListener('submit', submitForm); window.addEventListener('load', displayCurrentDate);

**Results and Discussions :**