

Experiment 4

```
html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <title>JavaScript Event-Driven Programming</title>
  <link rel="stylesheet" href="styles2.css" />
</head>

<body>
<div class="container">
  <h1>JavaScript Event-Driven Programming</h1>

  <!-- 1. Button Click Event -->
  <section>
    <h2>1. Button Click Event</h2>
    <button id="clickBtn">Click Me</button>
    <p id="displayText">Click the button to change this text</p>
  </section>

  <!-- 2. Mouse Event -->
  <section>
    <h2>2. Mouse Event</h2>
    <div id="hoverBox">Hover over me!</div>
  </section>

  <!-- 3. Input Event -->
  <section>
    <h2>3. Input Event</h2>
    <input type="text" id="nameInput" placeholder="Enter your name">
    <p id="greeting"></p>
  </section>

  <!-- 4. Form Submit Event -->
  <section>
    <h2>4. Form Submit Event</h2>
    <form id="myForm">
      <input type="text" id="userInput" placeholder="Enter something" required>
      <button type="submit">Submit</button>
    </form>
    <p id="formMessage"></p>
  </section>
</div>
```

```
<script src="script.js"></script>
</body>
</html>
JAVASCRIPT
// 1. BUTTON CLICK EVENT
const clickBtn = document.getElementById('clickBtn');
const displayText = document.getElementById('displayText');

clickBtn.addEventListener('click', function () {
  displayText.textContent = 'Button was clicked! Text changed successfully.';
  displayText.style.color = '#0f766e';
});

// 2. MOUSE EVENTS
const hoverBox = document.getElementById('hoverBox');

hoverBox.addEventListener('mouseover', function () {
  hoverBox.textContent = 'Mouse is hovering!';
});

hoverBox.addEventListener('mouseout', function () {
  hoverBox.textContent = 'Hover over me!';
});

// 3. INPUT EVENT
const nameInput = document.getElementById('nameInput');
const greeting = document.getElementById('greeting');

nameInput.addEventListener('keyup', function () {
  const name = nameInput.value;
  if (name) {
    greeting.textContent = 'Hello, ' + name + '!';
    greeting.style.color = '#6b21a8';
  } else {
    greeting.textContent = "";
  }
});

// 4. FORM SUBMIT EVENT
const myForm = document.getElementById('myForm');
const formMessage = document.getElementById('formMessage');

myForm.addEventListener('submit', function (event) {
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event.preventDefault();
const userInput = document.getElementById('userInput').value;
formMessage.textContent = 'Form submitted! You entered: ' + userInput;
formMessage.style.color = '#0f766e';
});
CSS
* {
margin: 0;
padding: 0;
box-sizing: border-box;
}

body {
font-family: Arial, sans-serif;
background: linear-gradient(135deg, #6b21a8, #0f766e);
padding: 30px;
}

.container {
max-width: 750px;
margin: 0 auto;
background: white;
padding: 35px;
border-radius: 12px;
box-shadow: 0 10px 25px rgba(0, 0, 0, 0.2);
}

h1 {
text-align: center;
color: #6b21a8;
margin-bottom: 30px;
}

h2 {
color: #0f766e;
margin-bottom: 10px;
font-size: 18px;
}

section {
margin-bottom: 30px;
padding: 20px;
background: #f3f4f6;
border-left: 6px solid #6b21a8;
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```
border-radius: 8px;
}

button {
background-color: #6b21a8;
color: white;
border: none;
padding: 10px 22px;
font-size: 16px;
border-radius: 6px;
cursor: pointer;
transition: 0.3s;
}

button:hover {
background-color: #0f766e;
}

#hoverBox {
width: 100%;
height: 100px;
background-color: #e0e7ff;
border: 2px dashed #6b21a8;
border-radius: 6px;
display: flex;
align-items: center;
justify-content: center;
font-size: 18px;
cursor: pointer;
transition: 0.3s;
}

#hoverBox:hover {
background-color: #6b21a8;
color: white;
}

input[type="text"] {
width: 100%;
padding: 10px;
font-size: 16px;
border: 2px solid #ddd;
border-radius: 6px;
margin-bottom: 10px;
```

```
}
```

```
p {
```

```
    margin-top: 15px;
```

```
    font-size: 16px;
```

```
    color: #444;
```

```
}
```

JavaScript Event-Driven Programming

1. Button Click Event

Click Me

Button was clicked! Text changed successfully.

2. Mouse Event

Mouse is hovering!

3. Input Event

hehe

Hello, hehe!

4. Form Submit Event

bye

Submit