

## 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) {

```

```
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;
```

```
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

byee

Submit