

WEB PROGRAMMING LAB

LAB2 – jQuery

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Q1 - Write a web page which contains table with 3 X 3 dimensions (fill some data) and one image. Style the rows with alternate color. Move the table and image together from right to left when button is clicked.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Interactive Portfolio</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
body {
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
margin: 0;
padding: 0;
background: linear-gradient(to right, #6a11cb, #2575fc);
color: #333;
}

header {
text-align: center;
padding: 20px;
background: #fff;
box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
position: sticky;
top: 0;
z-index: 1000;
}

header h1 {
margin: 0;
color: #6a11cb;
font-size: 2.5rem;
}

.container {
margin: 30px auto;
width: 90%;
max-width: 1200px;
text-align: center;
}

.table-container {
```

```
display: inline-block;
padding: 20px;
background: #fff;
border-radius: 12px;
box-shadow: 0 4px 10px rgba(0, 0, 0, 0.15);
transition: transform 0.3s ease;
}
```

```
table {
width: 100%;
border-collapse: collapse;
border-radius: 8px;
overflow: hidden;
}
```

```
table th, table td {
padding: 15px;
text-align: center;
border: 1px solid #ddd;
}
```

```
table th {
background-color: #6a11cb;
color: #fff;
}
```

```
table tr:nth-child(odd) {
background-color: #82dbe0;
}
```

```
table tr:nth-child(even) {
background-color: #a1b5e4;
}
```

```
table tr:hover {
background-color: #d6eaff;
transition: background-color 0.2s ease;
}
```

```
img {
margin-top: 20px;
width: 120px;
height: auto;
display: block;
margin-left: auto;
margin-right: auto;
}
```

```
button {
margin-top: 20px;
padding: 12px 25px;
```

```
font-size: 18px;
color: #fff;
background: linear-gradient(to right, #6a11cb, #2575fc);
border: none;
border-radius: 8px;
cursor: pointer;
box-shadow: 0 3px 6px rgba(0, 0, 0, 0.1);
transition: transform 0.2s ease, background 0.3s ease;
}
```

```
button:hover {
background: linear-gradient(to right, #2575fc, #6a11cb);
transform: scale(1.05);
}
```

```
footer {
margin-top: 50px;
padding: 20px;
background: #fff;
text-align: center;
box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.1);
}
```

```
footer p {
margin: 0;
color: #6a11cb;
}
```

```
.animate-container {
position: relative;
display: inline-block;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<header>
```

```
<h1>Interactive Portfolio</h1>
```

```
</header>
```

```
<div class="container">
```

```
<div class="animate-container">
```

```
<div class="table-container">
```

```
<table>
```

```
<thead>
```

```
<tr>
```

```
<th>Project</th>
```

```
<th>Description</th>
```

```
<th>Year</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```

<tr>
<td>Weather App</td>
<td>An app to display current weather using API.</td>
<td>2023</td>
</tr>
<tr>
<td>Portfolio Website</td>
<td>A visually appealing personal portfolio.</td>
<td>2024</td>
</tr>
<tr>
<td>Blog Platform</td>
<td>A platform to create and share blogs.</td>
<td>2022</td>
</tr>
</tbody>
</table>

</div>
</div>
<button id="moveButton">Animate Portfolio</button>
</div>

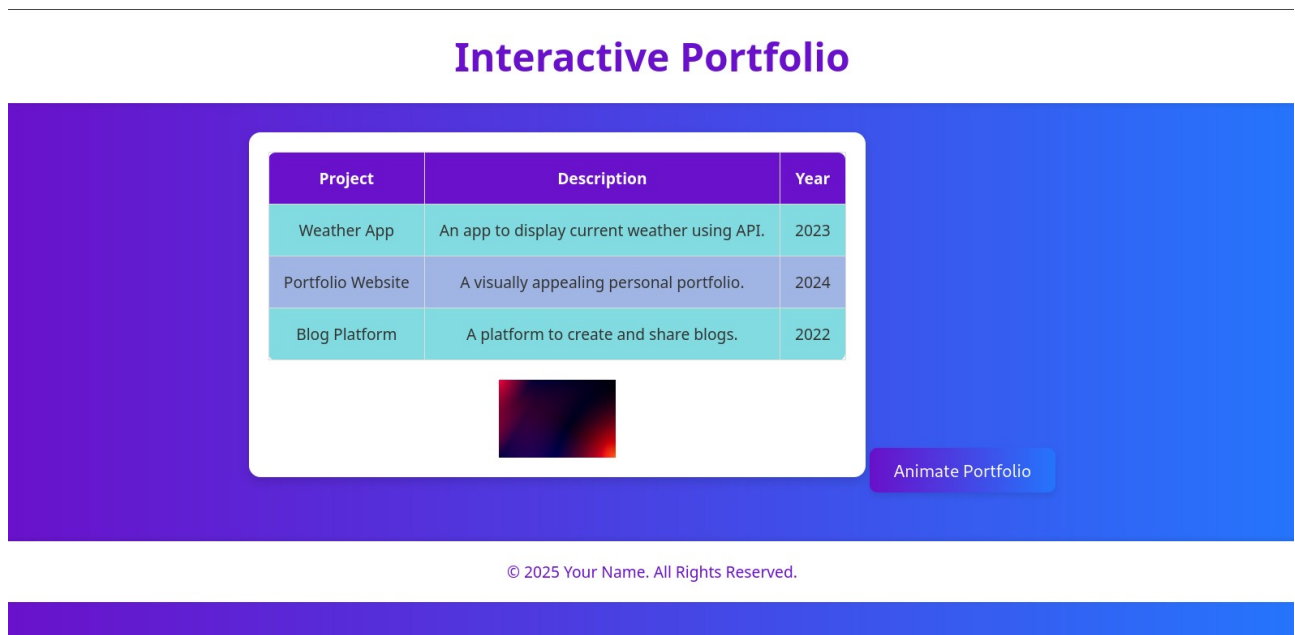
<footer>
<p>&copy; 2025 Your Name. All Rights Reserved.</p>
</footer>

<script>
$(document).ready(function() {
let moved = false;

$("#moveButton").click(function() {
if (!moved) {
$(".animate-container").animate({
left: "-=250px"
}, 1000, function() {
moved = true;
});
} else {
$(".animate-container").animate({
left: "+=250px"
}, 1000, function() {
moved = false;
});
}
});
});
});
</script>
</body>
</html>

```

OUTPUT:



Q2 - Design a calculator to perform basic arithmetic operations. Use textboxes and buttons to design web page.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Enhanced Calculator</title>
<style>
body {
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
margin: 0;
padding: 0;
background: linear-gradient(to right, #be8ef1, #9fb4d6);
color: #333;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
}

.calculator {
background: #fff;
padding: 20px;
border-radius: 12px;
box-shadow: 0 4px 15px rgba(0, 0, 0, 0.2);
width: 320px;
```

```
}
```

```
.calculator h1 {  
text-align: center;  
color: #112dcb;  
margin-bottom: 20px;  
font-size: 1.8rem;  
}
```

```
.calculator input[type="text"] {  
width: calc(100% - 20px);  
padding: 12px;  
font-size: 20px;  
margin-bottom: 15px;  
border: 2px solid #ddd;  
border-radius: 10px;  
text-align: right;  
transition: border-color 0.3s ease;  
}
```

```
.calculator input[type="text"]:hover {  
border-color: #6a11cb;  
}
```

```
.buttons {  
display: grid;  
grid-template-columns: repeat(4, 1fr);  
gap: 12px;  
}
```

```
.buttons button {  
padding: 15px;  
font-size: 18px;  
background: linear-gradient(to right, #7835c0, #3f72cb);  
color: #fff;  
border: none;  
border-radius: 8px;  
cursor: pointer;  
box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);  
transition: transform 0.2s ease, background 0.3s ease;  
}
```

```
.buttons button:hover {  
background: linear-gradient(to right, #457fe2, #8748cc);  
transform: scale(1.05);  
}
```

```
.buttons .wide {  
grid-column: span 2;  
}
```

```
</style>
```

```

</head>
<body>
<div class="calculator">
<h1>Calculator</h1>
<input type="text" id="display" readonly>
<div class="buttons">
<button onclick="appendValue('7')">7</button>
<button onclick="appendValue('8')">8</button>
<button onclick="appendValue('9')">9</button>
<button onclick="setOperation('/')">÷</button>

<button onclick="appendValue('4')">4</button>
<button onclick="appendValue('5')">5</button>
<button onclick="appendValue('6')">6</button>
<button onclick="setOperation('*')">×</button>

<button onclick="appendValue('1')">1</button>
<button onclick="appendValue('2')">2</button>
<button onclick="appendValue('3')">3</button>
<button onclick="setOperation('-')">-</button>

<button onclick="appendValue('0')">0</button>
<button onclick="appendValue('.')">.</button>
<button onclick="calculate()">=</button>
<button onclick="setOperation('+')">+</button>

<button class="wide" onclick="clearDisplay()">Clear</button>
</div>
</div>

<script>
let currentInput = '';
let currentOperation = null;
let previousInput = '';

function appendValue(value) {
currentInput += value;
updateDisplay();
}

function setOperation(operation) {
if (currentInput === '' && previousInput !== '') {
currentOperation = operation;
return;
}

if (currentInput !== '' && previousInput !== '') {
calculate();
}

previousInput = currentInput;

```

```

currentInput = '';
currentOperation = operation;
}

function calculate() {
if (currentInput === '' || currentOperation === null) return;

const num1 = parseFloat(previousInput);
const num2 = parseFloat(currentInput);

if (isNaN(num1) || isNaN(num2)) return;

if (currentOperation === '/' && num2 === 0) {
currentInput = 'Error';
} else {
switch (currentOperation) {
case '+':
currentInput = num1 + num2;
break;
case '-':
currentInput = num1 - num2;
break;
case '*':
currentInput = num1 * num2;
break;
case '/':
currentInput = num1 / num2;
break;
}
}

previousInput = '';
currentOperation = null;
updateDisplay();
}

function clearDisplay() {
currentInput = '';
previousInput = '';
currentOperation = null;
updateDisplay();
}

function updateDisplay() {
document.getElementById('display').value = currentInput;
}

document.addEventListener('keydown', (event) => {
const key = event.key;

if (!isNaN(key) || key === '.') {

```

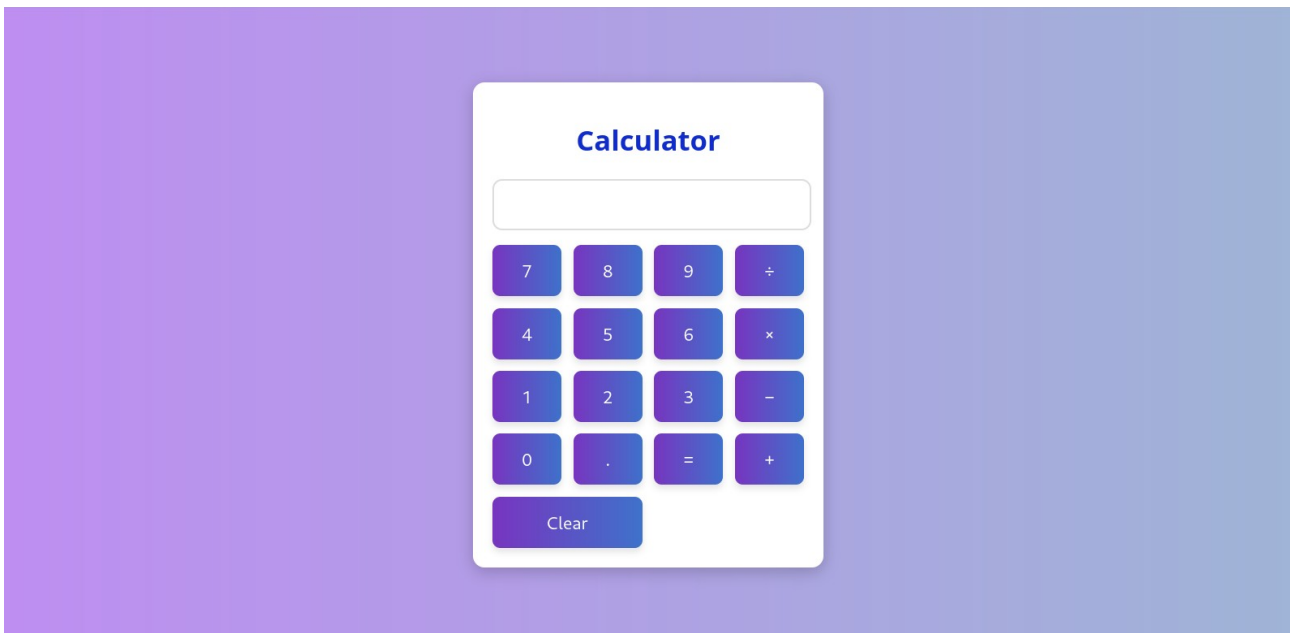


```

appendValue(key);
} else if (['+', '-', '*', '/'].includes(key)) {
setOperation(key);
} else if (key === 'Enter') {
calculate();
} else if (key === 'Backspace') {
currentInput = currentInput.slice(0, -1);
updateDisplay();
}
});
</script>
</body>
</html>

```

OUTPUT:



Q3 - Create a web page to design a birthday card shown below.

CODE: `<!DOCTYPE html>`
`<html lang="en">`
`<head>`
`<meta charset="UTF-8">`
`<meta name="viewport" content="width=device-width, initial-scale=1.0">`
`<title>Dynamic Birthday Card Maker</title>`
`<style>`
`body {`
`font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;`
`margin: 0;`
`padding: 0;`
`background: linear-gradient(to right, #fbc2eb, #a6c1ee);`
`color: #333;`

```
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
}
```

```
.container {
display: flex;
gap: 20px;
width: 80%;
height: 80%;
}
```

```
.options {
flex: 1;
background: #fff;
padding: 20px;
border-radius: 12px;
box-shadow: 0 4px 10px rgba(0, 0, 0, 0.15);
overflow-y: auto;
}
```

```
.options h2 {
text-align: center;
color: #6a11cb;
margin-bottom: 20px;
}
```

```
.options label {
display: block;
margin: 10px 0 5px;
font-weight: bold;
}
```

```
.options input[type="color"],
.options select,
.options input[type="number"],
.options input[type="checkbox"],
.options textarea {
width: 100%;
padding: 10px;
margin-bottom: 15px;
border: 1px solid #ddd;
border-radius: 8px;
}
```

```
.options button {
width: 100%;
padding: 15px;
font-size: 18px;
background: linear-gradient(to right, #6a11cb, #2575fc);
}
```

```
color: #fff;
border: none;
border-radius: 8px;
cursor: pointer;
box-shadow: 0 3px 6px rgba(0, 0, 0, 0.1);
transition: transform 0.2s ease, background 0.3s ease;
}
```

```
.options button:hover {
background: linear-gradient(to right, #2575fc, #6a11cb);
transform: scale(1.05);
}
```

```
.card-preview {
flex: 1;
background: #fff;
padding: 20px;
border-radius: 12px;
box-shadow: 0 4px 10px rgba(0, 0, 0, 0.15);
display: flex;
justify-content: center;
align-items: center;
position: relative;
overflow: hidden;
}
```

```
.card {
width: 100%;
height: 100%;
display: flex;
justify-content: center;
align-items: center;
flex-direction: column;
border: 2px solid #ddd;
border-radius: 12px;
text-align: center;
background: #f0f0f0;
padding: 20px;
transition: all 0.3s ease;
}
```

```
.card img {
max-width: 50%;
height: auto;
margin-bottom: 20px;
}
```

```
.card h1 {
margin: 0;
}
```

```

</style>
</head>
<body>
<div class="container">
<div class="options">
<h2>Customize Your Card</h2>
<label for="bgColor">Choose Background Color:</label>
<input type="color" id="bgColor" value="#f0f0f0">

<label for="font">Choose Font:</label>
<select id="font">
<option value="Arial">Arial</option>
<option value="Times New Roman">Times New Roman</option>
<option value="Georgia">Georgia</option>
<option value="Verdana">Verdana</option>
<option value="Comic Sans MS">Comic Sans MS</option>
</select>

<label for="fontSize">Specify Font Size:</label>
<input type="number" id="fontSize" value="24" min="10" max="72">

<label for="borderStyle">Choose Border Style:</label>
<select id="borderStyle">
<option value="solid">Solid</option>
<option value="dashed">Dashed</option>
<option value="dotted">Dotted</option>
<option value="double">Double</option>
<option value="groove">Groove</option>
</select>

<label for="addImage">Add Default Picture:</label>
<input type="checkbox" id="addImage">

<label for="greetingText">Enter Greeting Text:</label>
<textarea id="greetingText" rows="4">Happy Birthday!</textarea>

<button onclick="updateCard()">Update Card</button>
</div>
<div class="card-preview">
<div id="card" class="card">

<h1 id="cardText">Happy Birthday!</h1>
</div>
</div>
</div>

<script>
function updateCard() {
const card = document.getElementById('card');
const cardText = document.getElementById('cardText');

```

```

const cardImage = document.getElementById('cardImage');

// Update card background color
const bgColor = document.getElementById('bgColor').value;
card.style.backgroundColor = bgColor;

// Update font
const font = document.getElementById('font').value;
card.style.fontFamily = font;

// Update font size
const fontSize = document.getElementById('fontSize').value + 'px';
cardText.style.fontSize = fontSize;

// Update border style
const borderStyle = document.getElementById('borderStyle').value;
card.style.borderStyle = borderStyle;

// Toggle image
const addImage = document.getElementById('addImage').checked;
cardImage.style.display = addImage ? 'block' : 'none';

// Update greeting text
const greetingText = document.getElementById('greetingText').value;
cardText.textContent = greetingText;
}
</script>
</body>
</html>

```

OUTPUT:

