



Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript

ACADEMIC YEAR: 2024-25

CLASS	: BE	DIV	: 7	Batch	: R-7	DATE	:
Roll No	42305	ABC ID	: 810-360-343-871	SEMESTER	: I		

Experiment No.: 7

HTML →

```
<!DOCTYPE html>
```

```
<html lang="en"
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Dynamic Array Input</title>
```

```
<link rel="stylesheet" href="style_7.css">
```

```
</head>
```

```
<body>
```

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

```
<h1>Dynamic Array Input</h1>
```

```
<div id="inputFields"></div>
```

```
<button onclick="addInputField()">Add More</button>
```

```
<button onclick="submitArray()">Submit Array</button>
```

```
<div id="arrayResult"></div>
```

```
<div class="info">
```

```
<h2>Name: Teena Bambal</h2>
```

```
<h3>Roll Number: 42305</h3>
```

```
</div>
```

```
</div>
```

```
<script src="script_7.js"></script>
</body>
</html>
```

CSS ➔

```
body {
  font-family: Arial, sans-serif;
  background-color: #f2f2f2;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
  .container {
    background-color: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
    text-align: center;
  }
  input {
    padding: 10px;
    margin-top: 10px;
    border: 1px solid #ccc;
    border-radius: 4px;
  }
```

```
button {  
    padding: 10px 20px;  
    margin-top: 10px;  
    background-color: #4caf50;  
    color: white;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
}  
button:hover {  
    background-color: #45a049;  
}  
h1 {  
    color: #333;  
  
div {  
    margin-top: 20px;  
    color: #333;  
}  
h2,  
h3 {  
    margin: 5px;  
    color: #4caf50;  
}
```

JS ➔

```
let myArray = [];
```

```
// Function to dynamically add input fields
```

```
function addInputField() {
```

```
    const inputFieldsContainer = document.getElementById("inputFields");
```

```
    const newInput = document.createElement("input");
```

```
    newInput.type = "text";
```

```
    newInput.placeholder =
```

```
        "Enter an element (e.g., 5, 'hello', [1,2,3], {key: 'value'})";
```

```
    inputFieldsContainer.appendChild(newInput);
```

```
}
```

```
// Function to submit the array
```

```
function submitArray() {
```

```
    const inputs = document.querySelectorAll("#inputFields input");
```

```
    myArray = [];
```

```
    inputs.forEach((input) => {
```

```
        const value = input.value.trim();
```

```
        try {
```

```
            const evaluatedValue = eval(value);
```

```
            myArray.push(evaluatedValue);
```

```
        } catch (error) {
```

```
            alert(
```

```
                `Invalid input: "${value}". Please enter a valid JavaScript expression.`
```

```
            );
```

```
        }
```

```
    });
```

```
    displayArrayResult();
```

```
}
```

```
// Function to display the result of the array

function displayArrayResult() {

    document.getElementById(

        "arrayResult"

    ).innerHTML = `Array created: [${JSON.stringify(myArray, null, 2)}]`;

    // Check if any object in the array is of type array

    const arrayObjects = myArray.filter((item) => Array.isArray(item));

    if (arrayObjects.length > 0) {

        document.getElementById(

            "arrayResult"

        ).innerHTML += `<br>The array contains the following array objects: [${JSON.stringify(

            arrayObjects,

            null,

            2

        )}]`;

    } else {

        document.getElementById("arrayResult").innerHTML +=

            "<br>The array does not contain any arrays.";

    }

}
```

Output ➔

Array Operations

Enter the array size: 5

Create Array

Enter an element (e.g., 5, 'hello', [1,2,3]): 'Q'

Add Element

View Array

Current array: [5, "hello", 0, "HELLO", "Q"]
The array does not contain any array objects.

Name: Teena Bambal

Roll Number: 42305

Date:

Course Teacher Sign