



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

ACADEMIC YEAR: 2024-25

CLASS	: BE	DIV	: 6	Batch	: P6	DATE	: / /24
Roll No	42130	ABC ID	:			SEMESTER	: I

Experiment No.:

Code:

HTML

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Array Operations</title>
</head>

<body style="text-align: center;">
  <h1>JavaScript Array Operations</h1>

  <label for="arrayLength">Enter Array Length:</label>
  <input type="number" id="arrayLength" min="1" onchange="createArrayInputs()"><br><br>

  <div id="arrayInputs"></div>

  <label for="deleteElement">Enter Element to Delete:</label>
  <input type="text" id="deleteElement"><br><br>

  <label for="checkElement">Enter Element to Check:</label>
  <input type="text" id="checkElement"><br><br>

  <button onclick="performOperations()">Perform Operations</button>
  <button onclick="emptyArray()">Empty Array</button><br><br>

  <p id="originalArray"></p>
  <p id="modifiedArray"></p>
  <p id="checkResult"></p>
  <p id="arrayStatus"></p>

  <script src="script.js"></script>
</body>

</html>
```

JS

```
let array = [];
```

```
function createArrayInputs() {
  const arrayLength = parseInt(document.getElementById("arrayLength").value);
  const arrayInputsDiv = document.getElementById("arrayInputs");
  arrayInputsDiv.innerHTML = "";

  for (let i = 0; i < arrayLength; i++) {
    const input = document.createElement('input');
    input.type = 'text';
    input.id = `arrayElement${i}`;
    input.placeholder = `Enter value ${i + 1}`;
    arrayInputsDiv.appendChild(input);
    arrayInputsDiv.appendChild(document.createElement('br'));
  }
}
```

```
function performOperations() {
  const arrayLength = parseInt(document.getElementById("arrayLength").value);
  let deleteElement = document.getElementById("deleteElement").value;
  let checkElement = document.getElementById("checkElement").value;

  array = [];
  for (let i = 0; i < arrayLength; i++) {
    let value = document.getElementById(`arrayElement${i}`).value;
    array.push(value);
  }

  document.getElementById("originalArray").innerText = "Original Array: " + array.join(", ");

  array = array.filter(item => item !== deleteElement);
  document.getElementById("modifiedArray").innerText = "Array after Deletion: " + array.join(", ");

  let contains = array.includes(checkElement);
  document.getElementById("checkResult").innerText = "Contains " + checkElement + ": " + contains;
}
```

```
function emptyArray() {
  array = [];
  document.getElementById("arrayStatus").innerText = "Array is now empty.";
  document.getElementById("originalArray").innerText = "";
  document.getElementById("modifiedArray").innerText = "";
  document.getElementById("checkResult").innerText = "";
  document.getElementById("arrayInputs").innerHTML = "";
  document.getElementById("arrayLength").value = "";
}
```

Output:

JavaScript Array Operations

Enter Array Length:

Enter Element to Delete:

Enter Element to Check:

Original Array: abc, bcd, aaa
Array after Deletion: abc, bcd
Contains cat: false

Date:

Course Teacher Sign