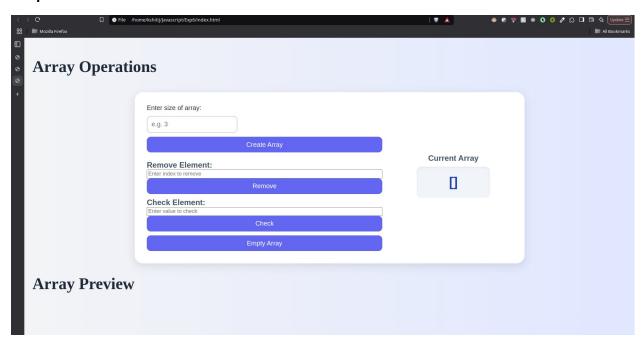
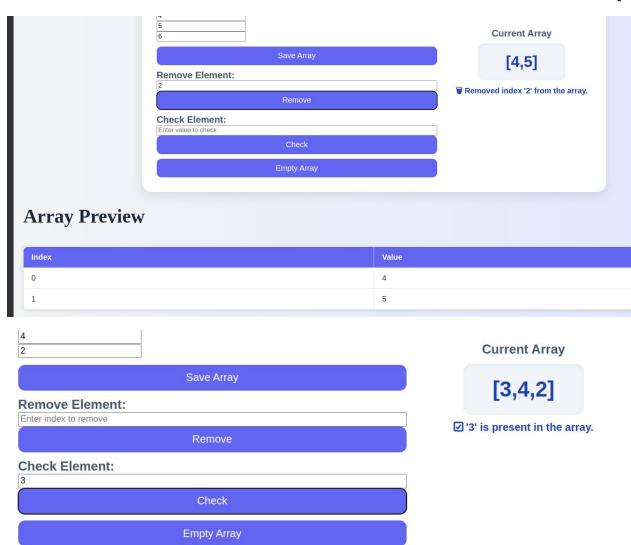
Output:





Roll no: 42405 Batch: Q6



Current Array



Roll no: 42405 Batch: Q6

Code:

1. HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
<script type="text/javascript" src="array_objects.js"></script>
<link rel="stylesheet" href="style.css">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
  <body>
    <h1>Array Operations</h1>
    <div class="shape-box">
      <!-- Input Section -->
      <div class="form-section">
        <label for="arraySize">Enter size of array:</label>
        <input type="number" id="arraySize" min="1" placeholder="e.g. 3" />
        <button onclick="createArray()">Create Array</button>
        <div id="arrayInputs"></div>
        <button id="saveArrayBtn" style="display: none" onclick="saveArray()">
          Save Array
        </button>
        <div class="operation">
          <label class="area-label">Remove Element:</label>
          <input
            type="text"
            id="removeInput"
            placeholder="Enter index to remove"
          />
          <button onclick="removeElement()">Remove</button>
        </div>
        <div class="operation">
          <label class="area-label">Check Element:</label>
```

```
<input
             type="text"
             id="checkInput"
             placeholder="Enter value to check"
           <button onclick="checkElement()">Check</button>
          </div>
          <button onclick="emptyArray()">Empty Array</button>
        </div>
        <!-- Result Section -->
        <div class="result-section">
          <div class="area-label">Current Array</div>
          <div class="area-box" id="arrayDisplay">[]</div>
          <div id="message" style="color: #1e40af; font-weight: 600"></div>
        </div>
      </div>
      <h1>Array Preview</h1>
      <!-- Table Section -->
      <thead>
          Index
           Value
          </thead>
        </body>
2. Javascript:
  let arr = [];
   // Update array display and table
   function updateDisplay(message = "") {
    document.getElementById("arrayDisplay").textContent = JSON.stringify(arr);
```

```
document.getElementById("message").textContent = message;
 const table = document.getElementById("arrayTable");
  const tbody = table.querySelector("tbody");
  tbody.innerHTML = "";
 if (arr.length > 0) {
    table.style.display = "table";
    arr.forEach((val, index) => {
     const row = document.createElement("tr");
     row.innerHTML = `${index}${val}`;
     tbody.appendChild(row);
    });
  } else {
    table.style.display = "none";
 }
}
function saveArray() {
 const size = parseInt(document.getElementById("arraySize").value);
 userArray = [];
 for (let i = 0; i < size; i++) {
    let val = document.getElementById(`element-${i}`).value.trim();
    // Try parsing numbers or arrays
    try {
     val = JSON.parse(val);
    } catch (e) {
     // keep as string if not JSON parsable
    }
    userArray.push(val);
  }
 document.getElementById("arrayDisplay").innerText = JSON.stringify(userArray);
 arr = userArray;
}
```

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```
function createArray() {
 const size = parseInt(document.getElementById("arraySize").value);
  const container = document.getElementById("arrayInputs");
  container.innerHTML = "";
 if (isNaN(size) || size <= 0) {</pre>
    alert("Please enter a valid array size.");
    return;
  }
  for (let i = 0; i < size; i++) {
    const input = document.createElement("input");
    input.type = "text";
    input.placeholder = `Element ${i + 1}`;
    input.id = `element-${i}`;
    container.appendChild(input);
    container.appendChild(document.createElement("br"));
  }
  document.getElementById("saveArrayBtn").style.display = "inline-block";
}
// Remove element
function removeElement() {
 if (arr.length === 0) {
    updateDisplay("△ Array is empty. Nothing to remove.");
    return;
  }
 const value = document.getElementById("removeInput").value.trim();
  if (!value) {
    updateDisplay("△ Enter an index to remove.");
    return;
  }
 const index = value;
  if (index !==-1) {
    arr.splice(index, 1);
    updateDisplay(`` Removed index '${value}' from the array.`);
```

```
} else {
    updateDisplay(`x index '${value}' not found in the array.`);
  }
}
// Check element
function checkElement() {
  if (arr.length === 0) {
    updateDisplay("△ Array is empty. Nothing to check.");
    return;
  }
  const rawValue = document.getElementById("checkInput").value.trim();
  const numValue = Number(rawValue);
  if (!rawValue) {
    updateDisplay("△ Enter a value to check.");
    return;
  }
  if (arr.includes(rawValue) || arr.includes(numValue)) {
    updateDisplay(`☑ '${rawValue}' is present in the array.`);
  } else {
    updateDisplay(`x '${rawValue}' is NOT in the array.`);
  }
}
// Empty array
function emptyArray() {
  if (arr.length === 0) {
    updateDisplay("△ Array is already empty.");
    return;
  }
  arr = [];
  updateDisplay("≰ Array emptied.");
}
```