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| CLASS : BE VII [S7] | | SUBJECT : JavaScript | |
| EXPT. NO. : 6 | Roll No.: 42372 | | DATE : |
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| CODE : | | | |
| <!DOCTYPE html>  <html>  <head>  <style>  body {  font-family: Arial, sans-serif;  text-align: center;  }  input, button {  margin: 5px;  }  </style>  </head>  <body>  <h1>Array Operations</h1>  <h2>42372 V Raghavendra Reddy</h2>  <p>Enter the array length and elements (comma-separated):</p>  <input type="text" id="arrayLength">  <input type="text" id="arrayElements">  <button onclick="createArray()">Create Array</button>  <div id="output"></div>  <script>  let myArray = [];  function createArray() {  const lengthInput = document.getElementById("arrayLength");  const elementsInput = document.getElementById("arrayElements");  const outputDiv = document.getElementById("output");  const length = parseInt(lengthInput.value);  const elements = elementsInput.value.split(",");  if (elements.length !== length) {  outputDiv.innerHTML = "Number of elements must match the specified length.";  return;  }  myArray = elements;  outputDiv.innerHTML = "Array created: " + myArray;  lengthInput.value = "";  elementsInput.value = "";  }  function removeByIndex() {  const index = parseInt(prompt("Enter index to remove:"));  if (index >= 0 && index < myArray.length) {  myArray.splice(index, 1);  document.getElementById("output").innerHTML = "Array after removal: " + myArray;  } else {  alert("Invalid index");  }  }  function removeByValue() {  const value = prompt("Enter value to remove:");  const index = myArray.indexOf(value);  if (index !== -1) {  myArray.splice(index, 1);  document.getElementById("output").innerHTML = "Array after removal: " + myArray;  } else {  alert("Value not found in the array");  }  }  function replaceByIndex() {  const index = parseInt(prompt("Enter index to replace:"));  if (index >= 0 && index < myArray.length) {  const value = prompt("Enter the new value:");  myArray[index] = value;  document.getElementById("output").innerHTML = "Array after replacement: " + myArray;  } else {  alert("Invalid index");  }  }  function replaceByValue() {  const oldValue = prompt("Enter value to replace:");  const index = myArray.indexOf(oldValue);  if (index !== -1) {  const newValue = prompt("Enter the new value:");  myArray[index] = newValue;  document.getElementById("output").innerHTML = "Array after replacement: " + myArray;  } else {  alert("Value not found in the array");  }  }  function appendElement() {  const value = prompt("Enter value to append:");  myArray.push(value);  document.getElementById("output").innerHTML = "Array after append: " + myArray;  }  function checkContainsValue() {  const value = prompt("Enter value to check:");  const contains = myArray.includes(value);  document.getElementById("output").innerHTML = "Array contains " + value + ": " + contains;  }  function emptyArray() {  myArray = [];  document.getElementById("output").innerHTML = "Array is now empty";  }  </script>  <p>Operations:</p>  <button onclick="removeByIndex()">Remove by Index</button>  <button onclick="removeByValue()">Remove by Value</button>  <button onclick="replaceByIndex()">Replace by Index</button>  <button onclick="replaceByValue()">Replace by Value</button>  <button onclick="appendElement()">Append Element</button>  <button onclick="checkContainsValue()">Check Contains Value</button>  <button onclick="emptyArray()">Empty Array</button>  </body>  </html> | | | |
| OUTPUT : | | | |
| Create Array:    Remove by Index:      Remove by Value:    A screenshot of a computer  Description automatically generated  Replace by Index:    Replace by Value:    Append Element:  A screenshot of a computer  Description automatically generated  Check Contains Value:  A screenshot of a computer  Description automatically generated  Empty Array:  A screenshot of a computer  Description automatically generated | | | |