|  |  |  |  |
| --- | --- | --- | --- |
| CLASS : BE VII [S7] | | SUBJECT : JavaScript | |
| EXPT. NO. : 7 | Roll No.: 42372 | | DATE : |
|  | | | |
| 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>  <div>  <p>Enter the array elements (comma-separated values or arrays enclosed in square brackets):</p>  <input type="text" id="arrayElements">  <button onclick="appendToArray()">Append to Array</button>  </div>  <div>  <p>Check if an object in the array is an array:</p>  <input type="text" id="checkArrayIndex">  <button onclick="checkIsArray()">Check Is Array</button>  </div>  <div>  <p>Show Array:</p>  <button onclick="showArray()">Show Array</button>  </div>  <div>  <p>Check Array Size:</p>  <button onclick="checkArraySize()">Check Array Size</button>  </div>  <div id="output"></div>  <script>  let myArray = [];  function appendToArray() {  const elementsInput = document.getElementById("arrayElements");  const outputDiv = document.getElementById("output");  const inputString = elementsInput.value;  const elements = parseInput(inputString);  if (elements) {  myArray = myArray.concat(elements.filter(Boolean));  }  elementsInput.value = '';  outputDiv.innerHTML = "Array after appending: " + JSON.stringify(myArray);  }  function parseInput(input) {  const elements = [];  const pattern = /\[.\*?\]/g;  const matches = input.match(pattern);  if (matches) {  for (const match of matches) {  try {  const parsedArray = JSON.parse(match);  if (Array.isArray(parsedArray)) {  elements.push(parsedArray);  }  } catch (error) {  // Ignore parsing errors  }  }  }  const nonArrayPart = input.replace(pattern, '').split(',');  const nonArrayElements = nonArrayPart.map(element => {  // Convert to number if possible  return !isNaN(element) ? parseFloat(element) : element.trim();  });  if (nonArrayElements.length > 0) {  elements.push(...nonArrayElements);  }  return elements.length ? elements : null;  }  function checkIsArray() {  const checkIndex = parseInt(document.getElementById("checkArrayIndex").value);  const outputDiv = document.getElementById("output");  if (checkIndex >= 0 && checkIndex < myArray.length) {  if (Array.isArray(myArray[checkIndex])) {  outputDiv.innerHTML = `The element at index ${checkIndex} is an array.`;  } else {  outputDiv.innerHTML = `The element at index ${checkIndex} is not an array.`;  }  } else {  outputDiv.innerHTML = "Index out of bounds";  }  }  function showArray() {  const outputDiv = document.getElementById("output");  outputDiv.innerHTML = "Current Array: " + JSON.stringify(myArray);  }  function checkArraySize() {  const outputDiv = document.getElementById("output");  outputDiv.innerHTML = "Array Size: " + myArray.length;  }  </script>  </body>  </html> | | | |

|  |
| --- |
| OUTPUT : |
| A screenshot of a computer  Description automatically generated |