

	<p align="center">PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043</p> <p align="center">DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG.</p> <p align="center">ACADEMIC YEAR : 2023-24 SEM: 1</p>
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CLASS : BE VII [S7]		SUBJECT : JavaScript	
EXPT. NO. : 7		Roll No.: 42372	DATE :
CODE :			
<pre><!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)); } } </script> </body> </html></pre>			



```
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>
```



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</body>
</html>



OUTPUT :

Enter the array elements (comma-separated values or arrays enclosed in square brackets):

Check if an object in the array is an array:

Show Array:

Check Array Size:

Array after appending: [[1,2],3,4]

Enter the array elements (comma-separated values or arrays enclosed in square brackets):

Check if an object in the array is an array:

Show Array:

Check Array Size:

The element at index 0 is an array.