



PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG.
ACADEMIC YEAR : 2023-24 SEM: 1

CLASS : BE VII [S7]

SUBJECT : JavaScript

EXPT. NO. : 6

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>
  <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 = "";
    }
  </script>
</body>
</html>
```



```
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:

Enter the array length and elements (comma-separated):

Array created: 1,2,3,4,5

Operations:



Remove by Index:

This page says

Enter index to remove:

2

OK

Cancel

Enter the array length and elements (comma-separated):

Array after removal: 1,2,4,5

Operations:

Remove by Value:

This page says

Enter value to remove:

5

OK

Cancel

Enter the array length and elements (comma-separated):

Array after removal: 1,2,4,5

Operations:



Replace by Index:

Enter the array length and elements (comma-separated):

Array after replacement: 1,2,4,6

Operations:

Replace by Value:

Enter the array length and elements (comma-separated):

Array after replacement: 1,2,4,6

Operations:

Append Element:

Enter the array length and elements (comma-separated):

Array after append: 1,3,4,6,7

Operations:

Check Contains Value:

Enter the array length and elements (comma-separated):

Array contains 4: true

Operations:



Empty Array:

Enter the array length and elements (comma-separated):

Create Array

Array is now empty

Operations:

Remove by Index

Remove by Value

Replace by Index

Replace by Value

Append Element

Check Contains Value

Empty Array