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Division: BE 8	Batch: Q8
Subject : Javascript	Date:

Experiment 6: Perform different array operations using JavaScript.

CODE:

1. HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Experiment 6</title>
</head>
<body id = "body" style = "text-align:center;">
  <H2>JavaScript Experiment 6</H2>
    <H4>Name: Vedant Kulkarni <br/> Roll No: 42438 <br/> Batch: Q8</H4>
    Please enter the Array to begin operations
    <br>><br>>
    <h3>Enter the Array</h3>
    Enter the length of the array:
    <input id="arrlen" placeholder="Array Length">
    <br>><br>>
    Enter an Element and click add element:
    <input id="arrEle" placeholder="Array Element">
    <br>><br>>
    <button id = "AddElement" onclick = "AddElement()">Add Element/button>
    <br>><br>>
    The Array is now: <b>[<span id="ArrOut">Empty Array</span>]</b>
    <br>><br>>
    <hr>
    <h3>Array searching operations</h3>
    <h4>Using User-defined Logic</h4>
    Enter the element to search:
    <input id="searchEle1" placeholder="Element to Search">
    <br>><br>>
    <button id = "SearchEleBut1" onclick = "SearchElement1()">Search Element//button>
    <br>><br>>
    The Element is at the index: <b><span id="SearchOut1"></span></b>
    <br>><br>>
    <h4>Using In-built Logic</h4>
    Enter the element to search:
    <input id="searchEle2" placeholder="Element to Search">
    <br>><br>>
    <button id = "SearchEleBut2" onclick = "SearchElement2()">Search Element/button>
    <br>><br>>
    The Element is at the index: <b><span id="SearchOut2"></span></b>
    <br>><br>>
    <hr>
```

```
<h3>Array delete operations</h3>
     <h4>Using User-defined Logic</h4>
    Enter the element to delete:
     <input id="delEle1" placeholder="Element to Delete">
     <br>><br>>
    <button id = "DelEleBut1" onclick = "DelElement1()">Delete Element/button>
    <br>><br>>
    The Array after deletion is: <b>[<span id="DelOut1">Empty Array</span>]</b>
    <h4>Using In-built Logic</h4>
    Enter the element to delete:
    <input id="delEle2" placeholder="Element to Delete">
     <br><br>>
     <button id = "DelEleBut2" onclick = "DelElement2()">Delete Element</button>
     <br><br>>
    The Array after deletion is: <b>[<span id="DelOut2">Empty Array</span>]</b>
    <br>><br>>
    <hr>
    <h3>Array Empty operations</h3>
     <h4>Using User-defined Logic</h4>
    <button id = "EmptyBut1" onclick = "empty1()">Empty Array</button>
     <br>><br>>
    The Array after emptying is: <b>[<span id="emptyOut1"></span>]</b>
     <h4>Using In-built Logic</h4>
     <button id = "EmptyBut2" onclick = "empty2()">Empty Array</button>
     <br>><br>>
     The Array after emptying is: <b>[<span id="emptyOut2"></span>]</b>
    <br>><br>>
    <hr>
    <button id = "reset" onclick = "window.location.reload()">reset</button>
    <script src="arrayopr.js"></script>
</body>
  </html>
<u>2. JS</u>
const Arr = new Array();
       function AddElement() {
         let Element = document.getElementById("arrEle").value;
         let len = document.getElementById("arrlen").value;
         if(Arr.length >= len) {
           alert("You are trying to Add more elements than the Array Length!")
         } else {
           Arr.push(Element);
           document.getElementById("ArrOut").innerHTML = Arr.toString();
       }
       function SearchElement1() {
         let Element = document.getElementById("searchEle1").value;
         let len = document.getElementById("arrlen").value;
         var flag = 0;
         for(let i = 0; i < len; i++) {
           if(Element == Arr[i]) {
              document.getElementById("SearchOut1").innerHTML = i;
```

```
flag = 1;
       break;
    }
  if(!flag) {
    document.getElementById("SearchOut1").innerHTML = "Element Not Found";
    alert("Element not found in the Array");
}
function SearchElement2() {
  let Element = document.getElementById("searchEle2").value;
  let len = document.getElementById("arrlen").value;
  if(Arr.indexOf(Element) < 0) {
    document.getElementById("SearchOut2").innerHTML = "Element Not Found";
    alert("Element not found in the Array");
  } else {
    document.getElementById("SearchOut2").innerHTML = Arr.indexOf(Element);
}
function DelElement1() {
  const ArrTemp = new Array();
  let Element = document.getElementById("delEle1").value;
  let len = document.getElementById("arrlen").value;
  for(let i = 0; i < len; i++) {
    if(Arr[i] != Element) {
       ArrTemp.push(Arr[i]);
  document.getElementById("DelOut1").innerHTML = ArrTemp.toString();
function DelElement2() {
  let Element = document.getElementById("delEle2").value;
  let len = document.getElementById("arrlen").value;
  if(Arr.indexOf(Element) < 0) {
    alert("Element not found in the Array");
  } else {
    Arr.splice(Arr.indexOf(Element), 1);
  document.getElementById("DelOut2").innerHTML = Arr.toString();
function empty1() {
  let len = document.getElementById("arrlen").value;
  for(let i = 0; i < len; i++) {
    Arr.pop();
  document.getElementById("emptyOut1").innerHTML = Arr.toString();
function empty2() {
  let len = document.getElementById("arrlen").value;
  Arr.splice(0, len);
  document.getElementById("emptyOut1").innerHTML = Arr.toString();}
```