IWP LAB

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1. Inserting numbers and displaying them using ADD and DISPLAY button

CODE

HTML

```
<!DOCTYPE html>
<html>
<head>
<meta charset=utf-8 />
<title>JS Bin</title>
<style>
body {padding-top:50px}
</style>
</head>
<body>
<script src="pp1.js"></script>
<input type="text" id="text1"></input>
<input type="button" id="button1" value="Add" onclick="add();"></input>
<input type="button" id="button2" value="Display" onclick="dis();"></input>
<div id="Result"></div>
</body>
</html>
```

JAVASCRIPT

```
var x = 0;
var array = Array();
function add()
{
array[x] = document.getElementById("text1").value;
alert("Element: " + array[x] + " Added at index " + x);
χ++;
document.getElementById("text1").value = "";
}
function dis()
{
 var e = "<hr/>";
 for (var y=0; y<array.length; y++)
 {
  e += "Element " + y + " = " + array[y] + "<br/>";
 }
 document.getElementById("Result").innerHTML = e;
}
```

OUTPUT

```
Add Display

Element 0 = 1

Element 1 = 2
```

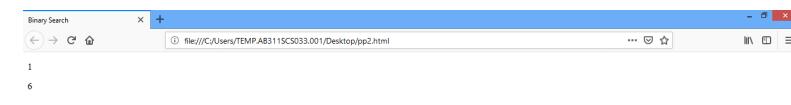
2. Search using Binary Search method

CODE

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>Binary Search</title>
</head>
<body>
<center>
</center>
<center>
</center>
<script>
function binary_Search(items, value){
  var firstIndex = 0,
    lastIndex = items.length - 1,
    middleIndex = Math.floor((lastIndex + firstIndex)/2);
  while(items[middleIndex] != value && firstIndex < lastIndex)
  {
   if (value < items[middleIndex])</pre>
    {
      lastIndex = middleIndex - 1;
    }
   else if (value > items[middleIndex])
    {
```

```
firstIndex = middleIndex + 1;
}
middleIndex = Math.floor((lastIndex + firstIndex)/2);
}
return (items[middleIndex] != value) ? -1 : middleIndex;
}
var items = [11, 12, 13, 14, 15, 17, 18, 19];
console.log(binary_Search(items, 12));
console.log(binary_Search(items, 18));
document.getElementById("I1").innerHTML = binary_Search(items, 12);
document.getElementById("I2").innerHTML = binary_Search(items, 18);
</script>
</body>
</html>
```

OUTPUT



3. Removing duplicate values from a given list of values

CODE

<!DOCTYPE html>

<html>

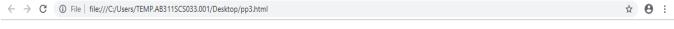
<head>

```
<meta charset="utf-8">
<title>DUPLICATE VALUES</title>
</head>
<body>
<center>
</center>
<script>
function removeDuplicates(num) {
 var x,
   len=num.length,
   out=[],
   obj={};
 for (x=0; x<len; x++) {
 obj[num[x]]=0;
 }
 for (x in obj) {
 out.push(x);
 }
 return out;
}
var Mynum = [1,1,2,2,3,4,5,5,6,7,9,9,9,10,14,15,15,16,18,20,20];
result = removeDuplicates(Mynum);
```

document.getElementById("I1").innerHTML = Mynum;
document.getElementById("I2").innerHTML = result;

</script>
</body>
</html>

OUTPUT



1,1,2,2,3,4,5,5,6,7,9,9,9,10,14,15,15,16,18,20,20 1,2,3,4,5,6,7,9,10,14,15,16,18,20

4. Input three values through three text boxes and display the output in a separate three text box. Use two buttons Ascending and Descending to perform the action.

CODE

<!DOCTYPE html>

<html>

<body>

<center>Points = [40, 100, 1, 5, 25, 10]</center>

<center>

<button onclick="myFunction1()">Descending</button>

<button onclick="myFunction2()">Ascending</button>

```
</center>
<script>
var points = [40, 100, 1, 5, 25, 10];
document.getElementById("demo").innerHTML = points;
function myFunction1() {
 points.sort(function(a, b){return b-a});
 document.getElementById("demo1").innerHTML = points.sort(function(a, b){return b-a});
}
function myFunction2() {
 points.sort(function(a, b){return b-a});
 document.getElementById("demo2").innerHTML = points.sort(function(a, b){return a-b});
}
</script>
</body>
</html>
```

OUTPUT

← → C ① File | file:///C:/Users/TEMP.AB311SCS033.001/Desktop/pp4.html

☆ 8 :

Points = [40, 100, 1, 5, 25, 10]

Points = [40, 100, 1, 5, 25, 10]

Descending Ascending

100,40,25,10,5,1

1,5,10,25,40,100