



Society for Computer Technology & Research's
Pune Institute of Computer Technology
Department of Electronics and Telecommunication Engineering

Roll no: 42411	Name: Aditi Daberao
Division: 8	Batch: P8
Sub: JavaScript	

Practical No : 7: Append an object to an array and will check if an object is an array

Code:

<!Concept of Arrays & array objects in JavaScript>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Experiment 7</title>

<style>

#tablestyle {

font-family: 'Times New Roman', Times, serif;

border-collapse: collapse;

width: 20%;

}

#tablestyle td, #tablestyle th {

border: 1px solid;

padding: 8px;

background-color: #dbfecf;



}

</style>

</head>

<body id = "body" style = "text-align:center;">

<H1>JavaScript Experiment 7</H1>

<H3>Name: Aditi Daberao Roll No: 42411 Batch: P8</H3>

Please enter the Array to begin operations

<h3>Enter the Array</h3>

Enter the length of the array:

<input id="arrlen" placeholder="Array Length">

Enter an Element and click add element:

<input id="arrEle" placeholder="Array Element">

<button id = "AddElement" onclick = "AddElement()">Add Element</button>

The Array is now: Empty Array

<hr>

<h3>Enter the Object</h3>

Enter the key-value pair of the object:



Enter the key:

<input id="ObjKey" placeholder="Object Key">

Enter the value:

<input id="ObjVal" placeholder="Object Value">

<button id = "AddObj" onclick = "AddObj()">Add Object</button>

<hr>

<h3>Check if Array elements are array</h3>

Click the button to generate the table

<button id = "checkArray" onclick = "checkArray()">Check Array</button>

<hr>

<button id = "reset" onclick = "window.location.reload()">reset</button>

<script>

const Arr = new Array();

function AddElement() {

let Element = document.getElementById("arrEle").value;

let len = document.getElementById("arrlen").value;



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```
if(Arr.length >= len) {  
  
    alert("You are trying to Add more elements than the Array Length!")  
  
} else {  
  
    Arr.push(Element);  
  
    document.getElementById("ArrOut").innerHTML = JSON.stringify(Arr);  
  
}  
  
}  
  
  
function AddObj() {  
  
    var obj = new Object();  
  
    let key = document.getElementById("ObjKey").value;  
  
    let val = document.getElementById("ObjVal").value;  
  
    let len = document.getElementById("arrlen").value;  
  
    obj.key = key;  
  
    obj.val = val;  
  
    if(Arr.length >= len) {  
  
        alert("You are trying to Add more elements than the Array Length!");  
  
    } else {  
  
        Arr.push(obj);  
  
        document.getElementById("ArrOut").innerHTML = JSON.stringify(Arr);  
  
    }  
  
}
```



```
function checkArray() {  
  
    var table;  
  
    table='<center><table id="tablestyle" style="text-align: center"><tr><td>Sr.  
No.</td><td>Element</td><td>Type Of Element</td><td>Is Array?</td></tr>';  
  
    for(i = 0;i < Arr.length; i++){  
  
        table +=  
'<tr><td>'+(i+1)+'</td><td>'+JSON.stringify(Arr[i])+'</td><td>'+typeof(Arr[i])+'</td><td>'+Array.isArray(Arr[i])+'</td></tr>';  
  
    }  
  
    table += '</table></center>';  
  
    document.getElementById("TableOutput").innerHTML = table;  
  
    }  
  
</script>  
  
</body>  
  
</html>
```



Output:

JavaScript Experiment 7

Name: Aditi Daberao Roll No: 42411 Batch: P8

Please enter the Array to begin operations

Enter the Array

Enter the length of the array:

Enter an Element and click add element:

The Array is now: ["10","12","14",{"key":"abc","val":"123"}]

Enter the Object

Enter the key-value pair of the object:

Enter the key:

Enter the value:

Check if Array elements are array

Click the button to generate the table

Sr. No.	Element	Type Of Element	Is Array?
1	"10"	string	false
2	"12"	string	false
3	"14"	string	false
4	{"key":"abc","val":"123"}	object	false
