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<b>Division : BE 8</b>	<b>Batch : Q8</b>
<b>Subject : Javascript</b>	<b>Date :</b>

## Experiment 7: Append an object to an array and will check if an object is an array.

### CODE:

#### 1. HTML

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<!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: Vedant Kulkarni <br> Roll No: 42438 <br> Batch: Q8</H3>
  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>Enter the Object</h3>
  Enter the key-value pair of the object:
  <br><br>
  Enter the key:

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

```

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<br><br>
Enter the value:
<input id="ObjVal" placeholder="Object Value">
<br><br>
<button id = "AddObj" onclick = "AddObj()">Add Object</button>
<br><br>
<hr>
<h3>View Array Elements</h3>
Click the button to generate the table
<button id = "checkArray" onclick = "checkArray()">Check Array</button>
<br><br>
<span id="TableOutput"></span>
<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;
        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>

```