

WEEK 04 ASSIGNMENT

- **Write a JavaScript program to iterate over all the properties of an object in reverse, running a callback for each one.**

```
<> assignment9.html > html > body > script > addProperty
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1">
6  <title>Dynamic Object Reverse</title>
7  <style>
8  @import url('https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap');
9  body {
10 font-family: 'Roboto', sans-serif;
11 background: linear-gradient(135deg, #e0eafc, #cfdef3);
12 margin: 0;
13 padding: 0;
14 display: flex;
15 justify-content: center;
16 align-items: center;
17 height: 100vh;
18 }
19 .container {
20 background: white;
21 padding: 20px 30px;
22 border-radius: 10px;
23 box-shadow: 0 4px 12px rgba(0, 0, 0, 0.2);
24 max-width: 400px;
25 width: 100%;
26 text-align: center;
27 }
28 h1 {
29 color: #333;
30 margin-bottom: 20px;
31 }
32 form {
33 margin-bottom: 20px;
34 }
35 input {
36 margin-bottom: 10px;
37 padding: 10px;
38 width: 100%;
39 border: 1px solid #ccc;
40 border-radius: 8px;
41 font-size: 1rem;
42 outline: none;
43 transition: border-color 0.3s;
44 }
```

```
2 <html lang="en">
3 <head>
7 <style>
35 input {
39 border: 1px solid #ccc;
40 border-radius: 8px;
41 font-size: 1rem;
42 outline: none;
43 transition: border-color 0.3s;
44 }
45 input:focus {
46 border-color: #007bff;
47 }
48 button {
49 padding: 10px 20px;
50 font-size: 1rem;
51 color: white;
52 background-color: #007bff;
53 border: none;
54 border-radius: 8px;
55 cursor: pointer;
56 width: 100%;
57 margin-bottom: 20px;
58 transition: background-color 0.3s, transform 0.2s;
59 }
60 button:hover {
61 background-color: #0056b3;
62 transform: translateY(-2px);
63 }
64 button:active {
65 background-color: #004494;
66 transform: translateY(0);
67 }
68 #output {
69 text-align: left;
70 max-height: 200px;
71 overflow-y: auto;
72 padding: 10px;
73 border: 1px solid #ddd;
74 border-radius: 8px;
75 background-color: #f9f9f9;
76 }
77 .property {
78 padding: 5px 0;
```

```

2   <html lang="en">
3   <head>
4   <script>
7   <style>
64  button:active {
65  background-color: #004494;
66  transform: translateY(0);
67  }
68  #output {
69  text-align: left;
70  max-height: 200px;
71  overflow-y: auto;
72  padding: 10px;
73  border: 1px solid #ddd;
74  border-radius: 8px;
75  background-color: #f9f9f9;
76  }
77  .property {
78  padding: 5px 0;
79  border-bottom: 1px solid #eee;
80  animation: fadeIn 0.5s forwards;
81  opacity: 0;
82  }
83  .property:last-child {
84  border-bottom: none;
85  }
86  @keyframes fadeIn {
87  from { opacity: 0; transform: translateY(-10px); }
88  to { opacity: 1; transform: translateY(0); }
89  }
90  </style>
91  </head>
92  <body>
93  <div class="container">
94  <h1>Dynamic Object Reverse</h1>
95  <form id="inputForm">
96  <input type="text" id="property" placeholder="Enter Property Name" required>
97  <input type="text" id="value" placeholder="Enter Property Value" required>
98  <button type="button" onclick="addProperty()">Add Property</button>
99  </form>
100 <button onclick="reverseAndDisplay()">Reverse Properties</button>
101 <div id="output"></div>
102 </div>
103 <script>
104 const dynamicObject = {} // Dynamic object to store properties

```

```

<> assignment9.html > html > body > script
 2  <html lang="en">
92  <body>
93  <div class="container">
99  </form>
100 <button onclick="reverseAndDisplay()">Reverse Properties</button>
101 <div id="output"></div>
102 </div>
103 <script>
104 const dynamicObject = {};
105 function addProperty() {
106   const propertyInput = document.getElementById('property');
107   const valueInput = document.getElementById('value');
108   const propertyName = propertyInput.value.trim();
109   const propertyValue = valueInput.value.trim();
110   if (propertyName && propertyValue) {
111     dynamicObject[propertyName] = propertyValue;
112     alert(Property )
113     propertyInput.value = '';
114     valueInput.value = '';
115   } else {
116     alert('Please fill out both fields!');
117   }
118 }
119 function reverseAndDisplay() {
120   const outputDiv = document.getElementById('output');
121   outputDiv.innerHTML = ''; // Clear previous output
122   const keys = Object.keys(dynamicObject).reverse();
123   if (keys.length === 0) {
124     outputDiv.innerHTML = '<p>No properties to display!</p>';
125     return;
126   }
127   keys.forEach(key => {
128     const propertyDiv = document.createElement('div');
129     propertyDiv.classList.add('property');
130     propertyDiv.innerHTML = <strong>${key}</strong> ${dynamicObject[key]};
131     outputDiv.appendChild(propertyDiv);
132   });
133 }
134 </script>
135 </body>
136 </html>

```

Property 'Course' with value 'MCA' added.

OK

Dynamic Object Reverse

Course

MCA

Add Property

Reverse Properties

Dynamic Object Reverse

Enter Property Name

Enter Property Value

Add Property

Reverse Properties

Course: MCA

Name: Divyansh