

## lab-2.0\index.html

```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="description" content="D3 Data Binding Exercise">
7      <meta name="keywords" content="HTML, D3, JavaScript, Data Visualization">
8      <meta name="author" content="Joe Bloggs">
9      <title>D3 Data Binding</title>
10     <script src="https://d3js.org/d3.v7.min.js"></script>
11 </head>
12
13 <body>
14     <h1>Creating and Formatting Paragraph Elements with D3</h1>
15
16     <script>
17         // Step 3: Define the dataset
18         const dataset = [14, 5, 26, 23, 9];
19
20         // Use D3 to generate and format paragraph elements
21         d3.select("body")
22             .selectAll("p")
23             .data(dataset)
24             .enter()
25             .append("p")
26             .text(function (d) {
27                 // Use the data value 'd' to create a sentence
28                 return `Joe watched ${d} cat videos today.`;
29             })
30             .style("color", function (d) {
31                 // Conditionally set the text color to red if the value is > 10
32                 if (d > 10) {
33                     return "red";
34                 }
35             })
36             .html(function (d) {
37                 // Conditionally add a "Warning:" prefix if the value is > 10
38                 if (d > 10) {
39                     return `<strong>Warning:</strong> ${this.innerHTML}`;
40                 } else {
41                     return this.innerHTML;
42                 }
43             });
44     </script>
45
46     <footer>
47         <p style="color:grey; font-style: italic;">
48             COS30045 Data Visualisation<br>
```

```
49         Joe Bloggs
50     </p>
51 </footer>
52
53 </body>
54
55 </html>
```