

index.html

```
1  <!--
2
3  10. How does the DOM represent the structure of a webpage? Provide with example along with an
4  illustration diagram.
5
6  -->
7
8  <!DOCTYPE html>
9  <html lang="en">
10
11 <head>
12     <meta charset="UTF-8">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <title>DOM Structure</title>
15 </head>
16
17 <body>
18
19     <!--
20
21     The DOM (Document Object Model) represents the structure of a webpage as a tree-like hierarchy of nodes. Each element,
22     attribute, and piece of text in the HTML document is a node in the DOM tree. This hierarchical structure allows scripts and
23     programs to interact with and manipulate the content, structure, and styling of the webpage dynamically.
24
25     Root Node: The top-level node of the DOM tree is the <html> element.
26
27     Element Nodes: Represent HTML tags, such as <head>, <body>, <div> etc.
28
29     Text Nodes: Represent the text content inside elements.
30
31     Attribute Nodes: Represent attributes like id, class, or src as part of element nodes.
32
33     -->
34
35     <h1>Welcome to the DOM</h1>
```

```
35     <p>This is an example of the DOM structure.</p>  
36  
37 </body>  
38  
39 </html>
```