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HTML DOM Accessing Nodes

Accessing Nodes

DOM is able to access every node in an HTML document in three ways:

- By using the `getElementById` method
- By using the `getElementsByTagName` method
- By navigating the node tree, using the node relationships

The `getElementById` Method

The `getElementById` method returns the element with the specified ID.

The script shows how to locate a `<p>` element in the document by using the `getElementById` method. The method `getAttribute` of the interface `Element`, which represents an element in an HTML or XML document, is used to get the value of an attribute in an object.

```
<html>
 <body>
  <p ID="first" alt="greeting">
   Hello, World!</p>
  <script type="text/javascript">
   elm = document.getElementById( 'first' );
   document.write( elm.getAttribute( 'alt' ) );
  </script>
 </body>
</html>
```

Display the HTML Reset

The `getElementsByTagName` Method

`getElementsByTagName` returns all elements with a specified tag name. The method returns a `NodeList`, which represents an

ordered collection of nodes. The length property returns the number of items in a NodeList.

```
<html>
 <body>
  <p>Paragraph I</p>
  <p>Paragraph II</p>
  <script type="text/javascript">
   elms = document.getElementsByTagName( 'p' );
   document.write( elms.length );
  </script>
 </body>
</html>
```

Display the HTML Reset

Demonstration

The following demonstration shows how the script of HTML and JavaScript is displayed on the Web.

Display the HTML Reset

```
<html>
 <head>
  <script type="text/javascript">
   function getElements( ) {
    var x = document.getElementsByTagName("input");
    alert(x.length);
   }
  </script>
 </head>
 <body>
  <input type="text" size="20" /><br />
  <input type="text" size="20" /><br />
  <input type="text" size="20" /><br /><br />
  <input type="button" onclick="getElements( )"
   value="How many input elements?" />
 </body>
</html>
```

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