**HTML5 Assignments**

Questions and Answers :

**HTML Page Creation with Elements and Attributes**

1. What HTML element defines the document type?
   1. The **<!DOCTYPE html>** declaration informs the browser that the document is an HTML5 document.
2. What attribute specifies the source of an image?
   1. The attribute that specifies the source of an image in HTML is the **src** attribute. It is used within the **<img>** tag to define the path to the image you want to display.

1. How can you add a title to your webpage that displays on the browser tab?
   1. To add a title to your webpage that displays on the browser tab, you need to use the **<title>** tag inside the **<head>** section of your HTML document.

**HTML Tables**

1. What element defines a table row?
2. The HTML element that defines a table row is the **<tr>** element. It is used within a **<table>** element to group table cells into a single row.
3. How can you specify a caption for your table?
4. We can specify a caption for your table using the **<caption>** element. The **<caption>** element is placed directly after the opening **<table>** tag and provides a title or explanation for the table.
5. What attribute allows you to span cells across multiple columns?
6. The attribute that allows you to span cells across multiple columns is the **colspan** attribute. It is used within the **<td>** or **<th>** elements to indicate that the cell should extend across more than one column.

**HTML Forms**

1. What attribute specifies the type of input field (text, email, etc.)?
2. The attribute that specifies the type of input field is the **type** attribute, used within the **<input>** element.
3. How can you add a label to an input field?
4. You can add a label to an input field using the **<label>** element. The **<label>** element can be associated with a specific input field either by wrapping the input element or by using the **for** attribute to reference the input field's **id**.
5. What attribute specifies the action to be performed when the form is submitted?
6. The attribute that specifies the action to be performed when the form is submitted is the **action** attribute. This attribute is used within the **<form>** element to define the URL where the form data should be sent for processing.

**HTML Code Optimization Techniques**

1. What are the benefits of minifying HTML code?
2. Minifying HTML code offers several benefits : Reduced File Size, Improved Load Times, Lower Bandwidth usage, Better performance, SEO Benefits.
3. What is the difference between a semantic element and a non-semantic element?
4. Semantic elements convey meaning to both the browser and the developer. They describe the content they contain. Where as Non-semantic elements do not inherently convey meaning about the content they contain. They are typically used for layout or presentation purposes.
5. How can you comment sections of your HTML code for better readability?

**A** You can comment sections of your HTML code by using the **<!-- -->** syntax.