

Q.1 <!DOCTYPE html> is it a tag of html? If not, what is it and why do we use it?

Ans:- <!DOCTYPE html>: This is the doctype declaration, which specifies the version of HTML being used in the document. In this case, it's HTML5.

Q.2 Explain Semantic tags in html? And why do we need it?

Semantic tags:- The core characteristic of a semantic element is that it clearly communicates its meaning to both the developer and the browser. These elements clearly define its content.¹

Why Do We Need to Use Semantic Tags in HTML?

- The semantic **HTML tags** help the search engines and other user devices to determine the importance and context of web pages.
- The pages made with semantic elements are much easier to read.
- It has greater accessibility. It offers a better user experience.

Q.3 Differentiate between HTML Tags and Elements?

HTML Tags	HTML Elements
It consists of an opening bracket and a closing bracket.	It consists of a starting tag, content, and an end tag.
Usually consist of reserved keywords that have a unique meaning.	It consists of a generalised component that the user wants to display on their HTML page.

They cannot be nested.

They can be nested.

Q.4 Build Your Resume using HTML only

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Rakesh resume</title>
</head>
```

```
<body>
  <table>
    <tr>
      <th>
      </th>
      <th>
        <h1>Rakesh Kumar Yadav</h1>
        <p1>I would like to be a part company were i can give my hundred percent</p1>
      </th>
    </tr>
  </table>
  <hr>
```

```
<h2>Education</h2>
<table border="1">
  <tr>
    <th>course</th>
    <th>Institution</th>
    <th>Year</th>
    <th>Result</th>
  </tr>
  <tr>
    <td>BE in Mechanichal</td>
    <td>Sistec-R Bhopal</td>
    <td>2017-2021</td>
    <td>68%</td>
  </tr>
  <tr>
    <td>12 <sup>th</sup>Grade</td>
    <td>Y.M.Inter College</td>
    <td>2015-2017</td>
    <td>51%</td>
  </tr>
```

```
</table>
<h2>Internship</h2>
<p><strong>crisp bhopal</strong></p>
<p><strong>Trainee</strong></p>
<ul>
  <li>I in crisp i have learn how to figure out problem of new generation vehical through car mecatronics</li>
</ul>
<tr>
```

```
<h1>Project</h1>
<p><strong>Engine by Hydrogen</strong></p>
<ul>
  <li>In this project we are making engine to run through hydrogen gas</li>
</ul>
</tr>
<tr>
  <h1>Experience</h1>
  <p>Byjus</p>
  <ul>
    <li>BDA</li>
  </ul>
</tr>
<hr>
<tr>
  <h1>contact details</h1>
  <ul>
    <li>phone-6201212396</li>
    <li> email-rakuyadav1411@gmail.com</li>
  </ul>
</tr>
```

```
</body>
```

```
</html>
```

Q.5 Write HTML code so that it looks like the below image

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <link rel="stylesheet" href="Resume.css">
  <title>Resume</title>
</head>
<body>
<div class="image">
  
  <p>we will be learning the following thing this week</p>
  <p>Day1 &nbsp; Day2 &nbsp; Day3&nbsp; Day4</p>
  <p>Linul &nbsp; HTML &nbsp; Linux2 &nbsp; Linux3</p>
  <p>Git 1 &nbsp; CSS &nbsp; Git2 &nbsp; Bootstrap</p>
</div>
<form>
  <label for="name">Name:</label> &nbsp; &nbsp;
  <input type="text"><br>
  <label for="name">Phone mo:</label> &nbsp;
```

```

    <input type="text"><br>
    <label for="name">email id:</label> &nbsp; &nbsp; &nbsp;
    <input type="text">
</form>
<h1>The folling thing are important to be a programmer</h1>
<ul>
    <li>A problem solving mindset</li>
    <li>Consistency</li>
<li>clean code</li>
<li>Thorough knowledge of core concepts</li>
<li>Relable code</li>
<li>Speed</li>
</ul>
</body>
</html>

```

Q.6 What are some of the advantages of HTML5 over its previous versions?

Ans:-1. Cleaner markup/ Improved code:HTML5 will enable web designers to use cleaner, neater code. We can remove div tags and replace them with semantic HTML5 elements.

2. Elegant forms:HTML5 enables designers to use fancier forms. There will be different types of inputs, search and different fields for different purposes.

3. Consistency:As websites will adopt the new HTML5 elements we will see more consistency in terms of HTML used to code a web page on one site compared to another. This will make it much easier for designers and developers to immediately understand how aweb page is created.

4. Supports rich media elements:HTML5 has an inbuilt capability to play audio and video andso we can bid goodbye to those plugin tags.

5. Offline Application Cache:

HTML5 offers an offline application cache facility which will load the page the user has visited even if the user is temporarily offline. This feature will help the files to load muchfaster and reduce load on the server.

Q.7 Create a simple Music player using html only

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <audio src="https://www.pagalworld.com.se/files/download/id/3521" controls ></audio>
</body>
</html>

```


Q.8 What is the difference between <figure> tag and tag?

between <figure> & tag

S.No.	<figure> Tag	 Tag
1.	The figure tag is used to semantically organise the content of images, videos, audios or even charts or tables, block of codes in the HTML document.	The image tag is used to add an image to an HTML page. tag can only insert an image.
2.	<figure> tag is a container tag.	 tag is a void tag.

3.	This tag provides a container for content that is equivalent to a figure or diagram in a book.	The HTML <code></code> tag is used for embedding images into an HTML document.
4.	This tag is an inline element.	It is an inline element but when we specify width and height it becomes a block element.
5.	You can use the figure element in conjunction with the figcaption element to provide a caption for the contents of your figure element.	In image tag there's no special tag for captions, rather we can use <code><p></code> tag or <code></code> tag to add pseudocaptions.
6.	It makes it easy for the machine to understand the code. Easy to get on search engines.	It is difficult for machines to understand.
7.	The <code><figure></code> element itself may contain multiple other child elements be it a block of code, images, audios, video etc.	The <code></code> tag can not have multiple elements inside it only images can be added in <code></code> tag.

8.	The figure tag contains default alignment and styling.	The image tag does not contain any default alignment and styling.
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Q.9 What's the difference between html tag and attribute and give example of some global attributes?

Answer:

The difference between html tag and attribute

HTML attributes are found only in the starting tag. HTML tags are almost like keywords where every single tag has unique meaning. HTML elements specify the general content. HTML attributes specify various additional properties to the existing HTML element.

Some global example of attributes

Accesskey, autocapitalize, autofocus, class, contenteditable, etcetera

Q. 10 Write Html code so that it looks like the below image

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <table border="1" width="400">
    <tr>
      <th rowspan="3">Day</th>
      <th colspan="3">Seminar</th>
    </tr>
    <tr>
      <th colspan="2">schedule</th>
      <th rowspan="2">Topic</th>
    </tr>
    <tr>
      <th>Begin</th>
      <th>End</th>
    </tr>
    <tr>
      <td rowspan="2">Monday</td>
      <td rowspan="2">8:00am</td>
      <td rowspan="2">5:00pm</td>
      <td>Introduction of Xml</td>
    </tr>
    <tr>
      <td>Validity:DTD and Relaxing</td>
    </tr>
    <tr>
      <td rowspan="3">Tuesday</td>
      <td>8:00am</td>
      <td>11:00am</td>
      <td rowspan="2">XPath</td>
    </tr>
    <tr>
      <td>11:00am</td>
      <td>2:00pm</td>
    </tr>
    <tr>
      <td>2:00am</td>
      <td>5:00pm</td>
      <td>XSL Transformation</td>
    </tr>
    <tr>
      <td>Wednesday</td>
      <td>8:00am</td>
      <td>12:00pm</td>
      <td>XLS Formation</td>
    </tr>
  </table>

</body>
</html>
```