

# Hyper Text Markup Language (HTML) – Part B

## Tables in HTML

1. **Discuss Tables with relation to HTML.**

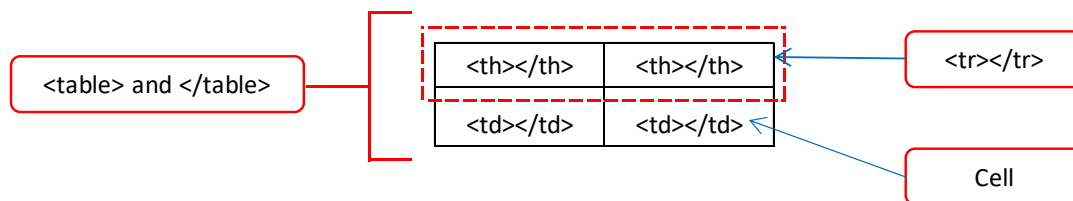
Table helps us organize data in a structured manner on a web page. It helps us present data in a row and column format.

2. **What are the elements used to create a table in HTML?**

The following elements are used to create a table in HTML:

- **<table> element:** This element defines a table. The <table> and </table> tags mark the beginning and the end of a table in an HTML document.
- **<tr> element:** This element defines a row in the table. It is the <tr> element that divides a table into rows. The <tr> and </tr> tags mark the beginning and the end of a row of a table in an HTML document.
- **<th> element:** This element defines a header cell in the table. The text enclosed between <th> and </th> tags is centrally aligned and is displayed in bolder font by default.
- **<td> element:** This element defines a data cell in the table. The text enclosed between <td> and </td> tags is left aligned and appears as regular text by default. We can include text, images, lists, form elements or a hyperlink in a data cell.
- **<caption> element:** This element defines a heading for the table. The <caption> element must be used immediately after the <table> tag.

The following diagram illustrates the use of different elements to create a basic table in HTML:



3. **What are <tr> and <th> tag used for in HTML?**

The <tr> element defines a table row, the <th> element defines a table header, and the <td> element defines a table cell.

The <th> and </th> tags are usually defined within <tr> and </tr> tag.

The text enclosed between <th> and </th> tags is centrally aligned and is displayed in bolder font by default.

4. **What is the use of <caption> tag in html?**

The element used for inserting a table heading is <caption>.

5. **What is the use of rowspan and colspan?**

rowspan and colspan are two of the important attributes of <td> and <th> that can be used to merge row or column. Below are the details:

Attribute Name	Description	Example
rowspan	This attribute specifies the number of rows a data cell should span.	<td rowspan=2>
colspan	This attribute specifies the number of columns a data cell should span.	<th colspan=2>

6. How do we define the border of HTML table?

We can use border attribute of <table> tag to define the size of the border. For example: <table border = 4>.

7. Write a HTML program to display the web page with following table and specification.

Site Name	Location
Khajuraho Group of Monuments	Khajuraho, Madhya Pradesh
Jantar Mantar	Jaipur, Rajasthan
Taj Mahal	Agra, Uttar Pradesh

**Specification:**

- The border size required is 1.
- The heading of the table should be 'World Heritage Sites in India'.

**Program:**

```
<!DOCTYPE html>
<html>
<head>
  <title> Information </title>
</head>
<body>
  <table border = 1>
    <caption> World Heritage Sites in India </caption>
    <tr>
      <th>Site Name</th>
      <th>Location</th>
    </tr>
    <tr>
      <td>Khajuraho Group of Monuments</td>
      <td>Khajuraho, Madhya Pradesh</td>
    </tr>
    <tr>
      <td>Jantar Mantar</td>
      <td>Jaipur, Rajasthan</td>
    </tr>
    <tr>
      <td>Taj Mahal</td>
      <td>Agra, Uttar Pradesh</td>
    </tr>
  </table>
</body>
</html>
```

8. Observe the following table with border and write the HTML code to generate it (the page title is Subject Split):

English	Grammer
	Comprehension
Maths	Algebra
	Geometry
Science	Physics
	Chemistry
	Biology

**Program:**

```
<!DOCTYPE html>
<html>
<head>
  <title> Subject Split </title>
</head>
<body>
  <table border = 1>
    <tr>
      <td rowspan = 2> English </td>
      <td> Grammer </td>
    </tr>
    <tr>
      <td>Comprehension</td>
    </tr>
    <tr>
      <td rowspan=2> Maths </td>
      <td> Albegra </td>
    </tr>
    <tr>
      <td> Geometry </td>
    </tr>
    <tr>
      <td rowspan=3> Science </td>
      <td> Physics </td>
    </tr>
    <tr>
      <td> Chemistry </td>
    </tr>
    <tr>
      <td> Biology </td>
    </tr>
  </table>

</body>
</html>
```

9. Write HTML code to display the following table and specifications:

Duty Chart

08:00 AM	10:00 AM	12:00 PM
KEVIN	KHUSBOO	AMARJEET

**Specifications:**

- The title of the webpage is "Schedule".
- The Caption of the Table is "Duty Chart".
- 8 AM, 10 AM and 12 AM are Table Headings.

**Program:**

```
<!DOCTYPE html>
<html>
<head>
  <title> Schedule </title>
</head>
<body>
  <table border = 1>
    <caption> Duty Chart </caption>
    <tr>
      <th> 8:00 AM </th>
      <th> 10:00 AM </th>
```

```

        <th> 12:00 PM </th>
    </tr>
    <tr>
        <td> KEVIN </td>
        <td> KHUSBOO </td>
        <td> AMARJEET </td>
    </tr>
</table>
</body>
</html>

```

10. Observe the following table and write the HTML code to generate it:

Serial No	Class	Number of Student		
		English	Hindi	Regional
1	X A	35	10	6
2	X B	31	15	4

**Program:**

```

<!DOCTYPE html>
<html>
<head>
    <title> Language Wise Students </title>
</head>
<body>
    <table border = 1>
        <tr>
            <th rowspan=2> Serial No </th>
            <th rowspan=2> Class </th>
            <th colspan=3> Number of Student </th>
        </tr>
        <tr>
            <td> English </td>
            <td> Hindi </td>
            <td> Regional </td>
        </tr>
        <tr>
            <td> 1 </td>
            <td> X A </td>
            <td> 35 </td>
            <td> 10 </td>
            <td> 6 </td>
        </tr>
        <tr>
            <td> 2 </td>
            <td> X B </td>
            <td> 31 </td>
            <td> 15 </td>
            <td> 4 </td>
        </tr>
    </table>
</body>
</html>

```

11. Write a HTML program for web page to display the following:

Activity Name		Monthly Charges
INDOOR Activities	Indian Dance	Rs. 250
	Dramatics	Rs. 350
OUTDOOR Activities	Skating	Rs. 150
	Horse Riding	Rs. 400

**Program:**

```
<html>
<head>
  <title> Price List </title>
</head>
<body>
  <table border=1>
    <caption> PRICE LIST </caption>
    <tr>
      <th colspan=2> Activity Name </th>
      <th> Monthly Charges </th>
    </tr>

    <tr>
      <td rowspan=2> INDOOR Activities </td>
      <td> Indian Dance </td>
      <td> Rs. 250 </td>
    </tr>

    <tr>
      <td> Dramatics </td>
      <td> Rs. 350 </td>
    </tr>

    <tr>
      <td rowspan=2> OUTDOOR Activities </td>
      <td> Skating </td>
      <td> Rs. 150 </td>
    </tr>

    <tr>
      <td> Horse Riding </td>
      <td> Rs. 400 </td>
    </tr>
  </table>
</body>
</html>
```

12. Fill in the blanks

1. A set of header rows is defined using <th> tag.
2. The tag to start a table is <table>.
3. TR tag can only be present inside <table> tag.
4. colspan attribute is used to span two or more columns in a table.
5. The <tr> element is used to define a table row in a HTML table.