

Experiment-02

Develop the HTML page named as “Table.html” to display your class time table.

a) Provide the title as Time Table with table header and table footer, row-span and col-span etc.

b) Provide various colour options to the cells (Highlight the lab hours and elective hours with different colours.)

c) Provide colour options for rows.

```
<!DOCTYPE html>
```

```
<head>
```

```
<title>Time Table</title>
```

```
<style>
```

```
table {
```

```
    width: 100%;
```

```
    border-collapse: collapse;
```

```
    text-align: center;
```

```
}
```

```
th, td {
```

```
    border: 1px solid black;
```

```
padding: 10px;
}
th {
background-color: #f2f2f2;
}
tr:nth-child(even) {
background-color: #f9f9f9;
}
tr:nth-child(odd) {
background-color: #e8f5e9;
}
.lab {
background-color: #ffeb3b;
}
.elective {
background-color: #ffccbc;
}
tfoot {
background-color: #cfd8dc;
font-weight: bold;
```

}

</style>

</head>

<body>

<h1>Class Time Table</h1>

<table>

<thead>

<tr>

<th rowspan="2">Day</th>

<th colspan="5">Subject/Time</th>

</tr>

<tr>

<th>9:00 - 10:00</th>

<th>10:00 - 11:00</th>

<th>11:00 - 12:00</th>

<th>1:00 - 2:00</th>

<th>2:00 - 3:00</th>

</tr>

</thead>

<tbody>

<tr>

<td>Monday</td>

<td>Mathematics</td>

<td>Physics</td>

<td class="lab" colspan="2">Physics Lab</td>

<td>English</td>

</tr>

<tr>

<td>Tuesday</td>

<td>Chemistry</td>

<td>Mathematics</td>

<td>English</td>

<td class="elective">Elective - AI</td>

<td>Free Period</td>

</tr>

	<tr>	
	<td>Wednesday</td>	
	<td class="elective" colspan="2">Elective -	
Machine Learning	</td>	
	<td>Chemistry</td>	
	<td>English</td>	
	<td class="lab">Chemistry Lab</td>	
	</tr>	
	<tr>	
	<td>Thursday</td>	
	<td>Mathematics</td>	
	<td>Physics</td>	
	<td>Computer Science</td>	
	<td>Chemistry</td>	
	<td class="elective">Elective - Data Science</td>	
	</tr>	
	<tr>	
	<td>Friday</td>	
	<td>English</td>	
	<td class="lab" colspan="2">Computer Science	
Lab	</td>	

<td>Physics</td>

<td>Chemistry</td>

</tr>

</tbody>

<tfoot>

<tr>

**<td colspan="6">Note: Lab sessions and Electives
are highlighted with different colors.</td>**

</tr>

</tfoot>

</table>

</body>

</html>

Document Structure

1. **<!DOCTYPE html>**

- This declaration defines the document type and version of HTML being used. In this case, it indicates that the document is using HTML5. It helps browsers to render the page correctly.

2. **<head> Section**

- This section contains meta-information about the document, including the title and any styles or scripts that apply to the whole document.
- **<title>Time Table</title>**
 - Sets the title of the webpage, which appears in the browser tab.
- **<style> Tag**
 - Contains CSS (Cascading Style Sheets) that defines how HTML elements are displayed. Here's a breakdown of the CSS rules:
 - **table**: Sets the table to occupy 100% of the width, collapses borders for a cleaner look, and centers text.
 - **th, td**: Styles for table header and data cells, adding borders and padding.
 - **th**: Gives a light gray background to header cells.
 - **tr:nth-child(even)** and **tr:nth-child(odd)**: Alternates row colors for better readability.
 - **.lab** and **.elective**: Classes that provide specific background colors for lab sessions and electives.
 - **tfoot**: Styles the footer of the table with a distinct background color and bold font.

3. **<body> Section**

- Contains the content of the webpage that is visible to users.
- **<h1>Class Time Table</h1>**
 - A main heading for the page.
- **<table> Element**
 - Defines a table structure to display the timetable.
 - **<thead> Section**
 - Contains header rows.
 - The first row (<tr>) defines the main header, spanning two rows with "Day" in the first cell and a group of five time slots in the second row.
 - **<tbody> Section**
 - Holds the main content of the table (the timetable itself).
 - Each <tr> (table row) represents a day of the week, with <td> (table data) elements listing the subjects scheduled for each time slot.
 - Some cells use classes (.lab and .elective) to apply background colors for visual distinction.
 - **<tfoot> Section**

- Contains footer information for the table, such as notes or additional information, in this case, a note about the color coding for lab sessions and electives.