Practical 3B: Tables (Quarter Report and Student Tables)

Aim: To Demonstrate the use of table tags

Question: Write HTML code to display the following tables:

Concepts:

Tag / Selector	Attribute / Property	Purpose / Usage
<table>	border, cellspacing, cellpadding, width	Sets up the table structure and spacing
<thead>, <tbody>	—	Separates table header from body rows
<tr>, <th>, <td>	rowspan, colspan, style, class	Defines rows and cells; merges and styles them accordingly
.report-table (CSS)	border-collapse, background-color, padding	External class for Table 1, styled using class selectors
.student-table (CSS)	border-collapse, border, padding, font-size	Dedicated styling for Table 2 (to prevent interference from Table 1)
td, th (CSS/inline)	color, background-color, text-align, font-weight	Enhances readability and cell styling
tr:nth-child(even)	background-color	Adds alternating row color (used in Table 1)
.blue-cell, .green-cell, .orange-cell	background-color, color, font-weight	Used for per-column cell coloring in Table 2

Code:

index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Practical 3B - Quarter Report and Student Tables</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <h1>2019 Fourth Quarter Report</h1>

    <table class="report-table" cellspacing="0">
      <thead>
        <tr>
          <th></th>
          <th>OCTOBER</th>
          <th>NOVEMBER</th>
          <th>DECEMBER</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td class="bluecol">Projected</td>
          <td>$820,180</td>
          <td>$841,640</td>
          <td>$732,270</td>
        </tr>
        <tr>
          <td class="bluecol" style="background-color: rgb(16, 69, 119)">
            Actual
          </td>
          <td>$850,730</td>
          <td>$892,580</td>
          <td>$801,240</td>
        </tr>
        <tr>
          <td class="bluecol">Utilization</td>
          <td>83%</td>
          <td style="background-color: rgb(226, 198, 37)">90%</td>
          <td>75%</td>
        </tr>
      </tbody>
    </table>

    <br />
```

```html
    <table class="student-table" cellspacing="0">
      <thead>
        <tr>
          <th>Roll No</th>
          <th>Name</th>
          <th>Team</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td class="orange-cell">1001</td>
          <td class="blue-cell">John</td>
          <td class="green-cell">Red</td>
        </tr>
        <tr>
          <td class="orange-cell">1002</td>
          <td class="blue-cell">Peter</td>
          <td class="green-cell">Blue</td>
        </tr>
        <tr>
          <td class="orange-cell">1003</td>
          <td class="blue-cell">Henry</td>
          <td class="green-cell">Green</td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```

style.css

```css
/* General Table Font */
table {
  font-family: Arial;
}

/* Styles only for the first table */
.report-table thead,
.report-table th {
  background-color: black;
  color: white;
  padding: 7px;
}


.report-table tbody,
.report-table td {
  padding: 7px;
}
```

```css
.report-table tr:nth-child(even) {
  background-color: lightgrey;
}

.report-table .bluecol {
  background-color: rgb(32, 123, 209);
  color: white;
  font-weight: bold;
}

/*Styles for Second Table */
.student-table {
  font-family: "Times New Roman";
}

.student-table {
  background-color: red;
  color: white;
  border-collapse: collapse;
  margin-top: 20px;
  font-size: 16px;
  border: 2px solid red;
}

.student-table th {
  background-color: rgb(123, 11, 11);
  color: white;
  padding: 5px;
  border: 2px solid red;
  font-weight: bold;
}

.student-table td {
  border: 2px solid red;
}

/* Colored Cells */
.orange-cell {
  background-color: orange;
  color: white;
}

.blue-cell {
  background-color: blue;
  color: white;
}
```

```css
.green-cell {
  background-color: green;
  color: white;
}
```

```css
.green-cell {
  background-color: green;
  color: white;
}
```

Output:

2019 Fourth Quarter Report

	OCTOBER	NOVEMBER	DECEMBER
Projected	$820,180	$841,640	$732,270
Actual	$850,730	$892,580	$801,240
Utilization	83%	90%	75%

Roll No	Name	Team
1001	John	Red
1002	Peter	Blue
1003	Henry	Green

Conclusion:

Through this practical, I learnt how to build and style multiple HTML tables independently. I used thead, tbody, and class-based styling to organize a quarterly report table, while managing cell-specific coloring and inline styles in the second table. Using nth-child, I could structure and visually separate data effectively. This exercise improved my ability to manage multiple tables on the same page without style conflicts and with clear visual design and learnt how to use class with element selectors to distinguish between objects.