Green University of Bangladesh
Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering
Semester: (Spring, Year:2024), B.Sc. in CSE (Day)

Lab Report NO: 01
Course Title: Web
Programming Lab
Course Code: CSE 302   Section: 231_D3

Lab Experiment Name: Creating Lists, Tables, and Forms using HTML Tags

Student Details

	Name	ID
1.	**Promod Chandra Das**	**231002005**

Lab Date: 10.02.2025
Submission Date: 17.02.2025
Course Teacher's Name: Mr.Mozdaher Abdul Quader

Lab Report Status

Marks: ……………………………………
Comments:..

Signature:.....................
Date:...............................

➢ **TITLE OF THE LAB REPORT EXPERIMENT**

Creating Lists, Tables, and Forms using HTML Tags

➢ **OBJECTIVES/AIM**

1. **Creating Lists:**
- Use <ul> for an unordered list and <ol> for an ordered list.
- Each list item should be enclosed in <li> tags.

Example:

| Input : | Output: |

```
<h3>Unordered List</h3>
<ul>
   <li>Item 1</li>
   <li>Item 2</li>
   <li>Item 3</li>
</ul>

<h3>Ordered List</h3>
<ol>
   <li>First Item</li>
   <li>Second Item</li>
   <li>Third Item</li>
</ol>
```

Unordered List

- Item 1
- Item 2
- Item 3

Ordered List

1. First Item
2. Second Item
3. Third Item

2. **Creating Tables:**
- Use <table> to create a table.
- Use <tr> for table rows, <th> for table headers, and <td> for table data cells.

Example:

| Input: | Output: |

```
<h3>Table</h3>
<table border="1">
   <tr>
     <th>Header 1</th>
     <th>Header 2</th>
   </tr>
   <tr>
     <td>Row 1, Cell 1</td>
     <td>Row 1, Cell 2</td>
   </tr>
   <tr>
     <td>Row 2, Cell 1</td>
     <td>Row 2, Cell 2</td>
   </tr>
</table>
```

Table

Header 1	Header 2
Row 1, Cell 1	Row 1, Cell 2
Row 2, Cell 1	Row 2, Cell 2

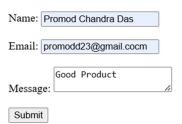3. **Creating Forms:**
   - Use <form> to create a form.
   - Use <input> for text fields, <textarea> for multi-line text, and <button> for buttons.
   - Include attributes like type, name, and placeholder for input fields.

Example:
Input:

```
<h3>Form</h3>
<form>
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" placeholder="Enter your name"><br><br>

    <label for="email">Email:</label>
    <input type="email" id="email" name="email" placeholder="Enter your email"><br><br>

    <label for="message">Message:</label>
    <textarea id="message" name="message" placeholder="Enter your
message"></textarea><br><br>

    <button type="submit">Submit</button>
</form>
```

Output:

Form

Name: [Promod Chandra Das]

Email: [promodd23@gmail.cocm]

Message: [Good Product]

[Submit]

Total Output:

Unordered List
- Item 1
- Item 2
- Item 3

Ordered List
1. First Item
2. Second Item
3. Third Item

Table

Header 1	Header 2
Row 1, Cell 1	Row 1, Cell 2
Row 2, Cell 1	Row 2, Cell 2

Form

Name: [Promod Chandra Das]

Email: [promodd23@gmail.cocm]

Message: [Good Product Plz Supply]

[Submit]

1. PROCEDURE / ANALYSIS / DESIGN

1. Flowchart

Below is a flowchart describing the steps to create the Routine.html file:

Start

Create HTML file (Routine.html)

Add HTML structure (DOCTYPE, html, head, body)

Add CSS for styling (center table, align text, border)

Create Table Structure

Use <th> for headers (Time, Days of the Week)

Use <td> for table data (Routine Activities)

Use colspan and rowspan for merging cells

Save and Open in Browser

End

2. Algorithm

1. **Start** the process.
2. Create a new file named Routine.html.
3. Add the basic HTML structure:
   o <!DOCTYPE html>
   o <html>, <head>, and <body> tags.
4. Add a <style> block in the <head> section to:
   o Center the table using margin: 0 auto;.

   o Align text in cells using text-align: center;.
   o Set the table border using border: 1px solid black;.
5. Create a <table> element with border="1".
6. Add table headers (<th>) for "Time" and days of the week (Monday to Sunday).
7. Add table rows (<tr>) and data cells (<td>) for each activity in the routine.
8. Use colspan and rowspan attributes to merge cells where necessary.
9. Save the file and open it in a web browser to verify the output.
10. **End** the process.

3. Pseudocode

```
BEGIN
  CREATE FILE Routine.html
  ADD HTML STRUCTURE
    DOCTYPE html
    html
      head
        title: "Personal Routine"
        style
          table { border: 1px solid black; margin: 0 auto; text-align: center; }
          th, td { border: 1px solid black; padding: 10px; }
      body
        h1: "My Personal Routine"
        table
          tr
            th: "Time"
            th: "Monday"
            th: "Tuesday"
            th: "Wednesday"
            th: "Thursday"
            th: "Friday"
            th: "Saturday"
            th: "Sunday"
          tr
            td: "6:00 AM - 7:00 AM"
            td colspan="7": "Morning Exercise"
          tr
            td: "7:00 AM - 8:00 AM"
            td colspan="7": "Breakfast"
          tr
            td: "8:00 AM - 12:00 PM"
            td: "Work"
            td: "Study"
            td: "Work"
            td: "Study"
            td: "Work"
            td rowspan="2": "Weekend Relaxation"
            td rowspan="2": "Weekend Relaxation"
          ... (Add more rows as needed)
  SAVE FILE
  OPEN IN BROWSER
END
```

4. Calculation

No complex calculations are required for this task. The focus is on:

- Structuring the HTML table.
- Using colspan and rowspan to merge cells.
- Applying CSS for styling (centering the table, aligning text, and setting borders).

5. Method

The method involves:

1. **Planning:** Decide the routine activities and how they fit into the table.
2. **Implementation:**
   - Write the HTML code for the table.
   - Use colspan and rowspan to merge cells as needed.
   - Apply CSS to style the table.
3. **Testing:** Open the file in a browser to ensure the table is displayed correctly.

6. Figure

Below is a representation of the table structure:

Formal Code	Course Title	Section	Day	Room	Time Slot
CSE 311	Data Communication	231_D1 [LOCKED]	Sun	A602	08:30:AM - 10:00:AM
			Tue	A602	08:30:AM - 10:00:AM
CSE 312	Data Communication Lab	231_D1	Tue	J108	11:30:AM - 01:30:PM
GED 301	History of Emergence of Bangladesh	231_D2	Sun	A-605	03:00:PM - 04:30:PM
			Mon		07:30:PM - 09:00:PM
CSE 303	Microprocessors, Microcontrollers and Embedded Systems	231_D3	Tue	L102	10:00:AM - 11:30:AM
			Sun	L102	10:00:AM - 11:30:AM
CSE 304	Microprocessors, Microcontrollers and Embedded Systems Lab	231_D4	Mon	L106	11:30:AM - 01:30:PM
CSE 301-CSE(181)	Web Programming	231_D2	Sun	K108	01:30:PM - 03:00:PM
			Tue	K108	01:30:PM - 03:00:PM
CSE 302-CSE(181)	Web Programming Lab	231_D3	Mon	K101	08:30:AM - 11:30:AM

4. IMPLEMENTATION
Problem: 01

Create an HTML page named as Routine.html. On this HTML page, you have to show the following table (Figure 11)

In this experiment, you have to create your own personal routine.

a) You must have to use colspan, rowspan tags.

b) Set the table border = 1.

c) Set the table in the center.

d) All the text within a cell must be in the center.

Answer To The Q No: 01

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Course Routine</title>
   <style>
      /* Center the table and align text in cells */
      table {
         border: 1px solid black;
         border-collapse: collapse;
         margin: 0 auto; /* Center the table */
         width: 80%; /* Adjust table width */
      }
      th, td {
         border: 1px solid black;
         padding: 10px;
         text-align: center; /* Center text in cells */
      }
      th {
         background-color: #f2f2f2; /* Light gray background for headers */
      }
   </style>
</head>
<body>
   <h1 style="text-align: center;">Course Routine</h1>
   <table>
      <!-- Table Headers -->
      <tr>
         <th>Course Title</th>
         <th>Section</th>
         <th>Day</th>
         <th>Room</th>
         <th>Time Slot</th>
      </tr>
      <!-- Course 1 -->
      <tr>
         <td>CSE311 - Data Communication</td>
         <td>231_D1</td>
         <td>Sun</td>
         <td>A602</td>
         <td>08:30AM - 10:00AM</td>
      </tr>
      <tr>
         <td>CSE311 - Data Communication</td>
         <td>[LOCKED]</td>
         <td>Tue</td>
         <td>A602</td>
         <td>08:30AM - 10:00AM</td>
      </tr>
      <!-- Course 2 -->
      <tr>
         <td>CSE312 - Data Communication Lab</td>
         <td>231_D1</td>
         <td>Tue</td>
         <td>J108</td>
         <td>11:30AM - 01:30PM</td>
      </tr>
      <tr>
         <td>CSE312 - Data Communication Lab</td>
```

```html
      <td>231_D1</td>
      <td>Sun</td>
      <td>A-605</td>
      <td>03:00PM - 04:30PM</td>
    </tr>
    <!-- Course 3 -->
    <tr>
      <td>GED301 - History of Emergence of Bangladesh</td>
      <td>231_D2</td>
      <td>Mon</td>
      <td></td>
      <td>07:30PM - 09:00PM</td>
    </tr>
    <tr>
      <td>GED301 - History of Emergence of Bangladesh</td>
      <td>231_D2</td>
      <td>Tue</td>
      <td>L102</td>
      <td>10:00AM - 11:30AM</td>
    </tr>
    <!-- Course 4 -->
    <tr>
      <td>CSE303 - Microprocessors, Microcontrollers and Embedded Systems</td>
      <td>231_D3</td>
      <td>Sun</td>
      <td>L102</td>
      <td>10:00AM - 11:30AM</td>
    </tr>
    <!-- Course 5 -->
    <tr>
      <td>CSE304 - Microprocessors, Microcontrollers and Embedded Systems Lab</td>
      <td>231_D4</td>
      <td>Mon</td>
      <td>L106</td>
      <td>11:30AM - 01:30PM</td>
    </tr>
    <!-- Course 6 -->
    <tr>
      <td>CSE301 - Web Programming</td>
      <td>231_D2</td>
      <td>Sun</td>
      <td>K108</td>
      <td>01:30PM - 03:00PM</td>
    </tr>
    <tr>
      <td>CSE301 - Web Programming</td>
      <td>231_D2</td>
      <td>Tue</td>
      <td>K108</td>
      <td>01:30PM - 03:00PM</td>
    </tr>
    <!-- Course 7 -->
    <tr>
      <td>CSE302 - Web Programming Lab</td>
      <td>231_D3</td>
      <td>Mon</td>
      <td>K101</td>
      <td>08:30AM - 11:30AM</td>
    </tr>
</table>
```

```
</body>
</html>
```

Output:

Course Routine

Course Title	Section	Day	Room	Time Slot
CSE311 - Data Communication	231_D1	Sun	A602	08:30AM - 10:00AM
CSE311 - Data Communication	[LOCKED]	Tue	A602	08:30AM - 10:00AM
CSE312 - Data Communication Lab	231_D1	Tue	J108	11:30AM - 01:30PM
CSE312 - Data Communication Lab	231_D1	Sun	A-605	03:00PM - 04:30PM
GED301 - History of Emergence of Bangladesh	231_D2	Mon		07:30PM - 09:00PM
GED301 - History of Emergence of Bangladesh	231_D2	Tue	L102	10:00AM - 11:30AM
CSE303 - Microprocessors, Microcontrollers and Embedded Systems	231_D3	Sun	L102	10:00AM - 11:30AM
CSE304 - Microprocessors, Microcontrollers and Embedded Systems Lab	231_D4	Mon	L106	11:30AM - 01:30PM
CSE301 - Web Programming	231_D2	Sun	K108	01:30PM - 03:00PM
CSE301 - Web Programming	231_D2	Tue	K108	01:30PM - 03:00PM
CSE302 - Web Programming Lab	231_D3	Mon	K101	08:30AM - 11:30AM

Problem: 02

Create and Design a Student Admission Form in HTML.
– Problem analysis
In this problem, we have a Student Admission Form in HTML. The admission form contains some fields that are the First Name, Last Name, Email ID, Mobile Number, Address, Course, Gender, Date of Birth, City, District, certificate file, image and so on. So basically, we have to create all these fields where the user can store the information.

Answer To The Q No: 02

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Admission Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
```
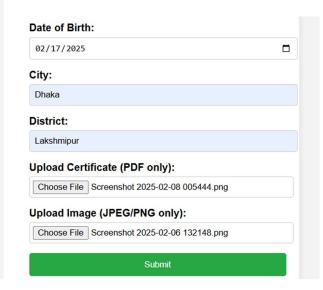
```css
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
    }
    .form-container {
        background-color: #fff;
        padding: 20px;
        border-radius: 8px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        width: 400px;
    }
    .form-container h2 {
        text-align: center;
        margin-bottom: 20px;
    }
    .form-group {
        margin-bottom: 15px;
    }
    .form-group label {
        display: block;
        margin-bottom: 5px;
        font-weight: bold;
    }
    .form-group input, .form-group select, .form-group textarea {
        width: 100%;
        padding: 8px;
        border: 1px solid #ccc;
        border-radius: 4px;
    }
    .form-group input[type="radio"] {
        width: auto;
        margin-right: 10px;
    }
    .form-group .radio-group {
        display: flex;
        align-items: center;
    }
    .form-group .radio-group label {
        margin-right: 20px;
        font-weight: normal;
    }
    .form-group input[type="file"] {
        padding: 5px;
    }
    .form-group button {
        width: 100%;
        padding: 10px;
        background-color: #28a745;
        color: white;
        border: none;
        border-radius: 4px;
        cursor: pointer;
    }
    .form-group button:hover {
        background-color: #218838;
    }
  </style>
</head>
<body>
```

```html
<div class="form-container">
  <h2>Student Admission Form</h2>
  <form action="#" method="post">
    <!-- First Name -->
    <div class="form-group">
      <label for="firstName">First Name:</label>
      <input type="text" id="firstName" name="firstName" required>
    </div>
    <!-- Last Name -->
    <div class="form-group">
      <label for="lastName">Last Name:</label>
      <input type="text" id="lastName" name="lastName" required>
    </div>
    <!-- Email ID -->
    <div class="form-group">
      <label for="email">Email ID:</label>
      <input type="email" id="email" name="email" required>
    </div>
    <!-- Mobile Number -->
    <div class="form-group">
      <label for="mobile">Mobile Number:</label>
      <input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}" required>
    </div>
    <!-- Address -->
    <div class="form-group">
      <label for="address">Address:</label>
      <textarea id="address" name="address" rows="3" required></textarea>
    </div>
    <!-- Course -->
    <div class="form-group">
      <label for="course">Course:</label>
      <select id="course" name="course" required>
        <option value="">Select Course</option>
        <option value="CSE">Computer Science and Engineering</option>
        <option value="ECE">Electronics and Communication Engineering</option>
        <option value="ME">Mechanical Engineering</option>
        <option value="CE">Civil Engineering</option>
      </select>
    </div>
    <!-- Gender -->
    <div class="form-group">
      <label>Gender:</label>
      <div class="radio-group">
        <label><input type="radio" name="gender" value="male" required> Male</label>
        <label><input type="radio" name="gender" value="female"> Female</label>
        <label><input type="radio" name="gender" value="other"> Other</label>
      </div>
    </div>
    <!-- Date of Birth -->
    <div class="form-group">
      <label for="dob">Date of Birth:</label>
      <input type="date" id="dob" name="dob" required>
    </div>
    <!-- City -->
    <div class="form-group">
      <label for="city">City:</label>
      <input type="text" id="city" name="city" required>
    </div>
    <!-- District -->
    <div class="form-group">
```

```
          <label for="district">District:</label>
          <input type="text" id="district" name="district" required>
        </div>
        <!-- Certificate File -->
        <div class="form-group">
          <label for="certificate">Upload Certificate (PDF only):</label>
          <input type="file" id="certificate" name="certificate" accept=".pdf" required>
        </div>
        <!-- Image -->
        <div class="form-group">
          <label for="image">Upload Image (JPEG/PNG only):</label>
          <input type="file" id="image" name="image" accept=".jpg,.jpeg,.png" required>
        </div>
        <!-- Submit Button -->
        <div class="form-group">
          <button type="submit">Submit</button>
        </div>
      </form>
    </div>
  </body>
</html>
```

Output:

Email ID:

promodd23@gmail.cocm

Mobile Number:

01825038553

Address:

Dhaka Cantonment ,North Kafrul 156/1

Course:

Computer Science and Engineering

Gender:

◉ Male   ○ Female   ○ Other

Date of Birth:

02/17/2025

City:

Dhaka

District:

Lakshmipur

Date of Birth:

02/17/2025

City:

Dhaka

District:

Lakshmipur

Upload Certificate (PDF only):

Choose File   Screenshot 2025-02-08 005444.png

Upload Image (JPEG/PNG only):

Choose File   Screenshot 2025-02-06 132148.png

Submit

ANALYSIS AND DISCUSSION :

HTML is a fundamental tool for structuring content on the web. In this task, we explored the creation of lists, tables, and forms using HTML tags. Lists (<ul>, <ol>, <li>) are used to organize items in an ordered or unordered manner, making content more readable. Tables (<table>, <tr>, <td>, <th>) are essential for displaying structured data, such as schedules or routines, with the ability to merge cells using colspan and rowspan. Forms (<form>, <input>, <select>, <textarea>) enable user interaction by collecting data through text fields, dropdowns, radio buttons, and file uploads.

These elements are crucial for creating interactive and well-organized web pages. Lists improve content readability, tables present data systematically, and forms facilitate user input. Proper use of HTML tags ensures accessibility, responsiveness, and a seamless user experience. By combining these elements, developers can create dynamic and functional web applications. This exercise highlights the importanc e of mastering HTML for effective web development**.**