HTML5 – Day-1 Hands On – Chintha Ramakrishna

Problem 1

1. **Problem Statement** - Create a basic HTML webpage using proper structure (DOCTYPE, head, body). Add a heading and paragraph introducing yourself, an unordered list of hobbies, an ordered list of daily routine steps, and a simple table showing Student Name, Subject, and Marks.

Code :-

```
<!doctype html>
<html>
<head>
<title>My First HTML page</title>
</head>
<body>
<h1>Welcome To My Page</h1>
<p> Hello! My name is Ramakrishna.</p>
<h2>My hobbies</h2>
<ul>
<li>Reading</li>
<li>Coding</li>
<li>Playing cricket</li>
</ul>
<h2>My daily routine</h2>
<ol>
<li>wakeup</li>
<li>exercise</li>
<li>study</li>
</ol>
<h2>Student details</h2>
<table border="2">
<tr>
<th>Student name</th>
<th>Subject</th>
<th>Marks</th>
</tr>
<tr>
<td>Ramakrishna</td>
```

```
<td>computer</td>
<td>90%</td>
</tr>
<tr>
<td>Hemanth</td>
<td>science</td>
<td>85%</td>
</tr>
<tr>
<td>akhil</td>
<td>social</td>
<td>92%</td>
</tr>


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

Welcome To My Page

Hello! My name is Ramakrishna.

My hobbies

- Reading
- Coding
- Playing cricket

My daily routine

1. wakeup
2. exercise
3. study

Student details

Student name	Subject	Marks
Ramakrishna	computer	90%
Hemanth	science	85%
akhil	social	92%

Output :-

Explanation :-

- This HTML page starts with the basic structure including `doctype`, `html`, `head`, and body tags.
- Inside the body, a main heading and a paragraph are used to introduce yourself.
- An unordered list is created to show your hobbies like reading, coding, and playing cricket.
- An ordered list is used to display your daily routine steps in sequence.
- A table is created to show student details such as student name, subject, and marks in rows and columns.

Problem 2

2. **Problem Statement** - Create a basic Restaurant Menu HTML webpage using proper HTML structure (DOCTYPE, head, body). The page should include a restaurant name as a heading, a paragraph about the restaurant, an unordered list showing menu categories, and a table displaying item name, category, and price. Use at least five HTML elements and include attributes like border, title, and align.

Code :-

```
<!DOCTYPE html>
<html>
<head>
    <title>Spicy Delight Restaurant</title>
    <style>
        table {
            border-collapse: collapse;
            margin-left: 0;
        }

        th, td {
            padding: 8px;
        }
    </style>
</head>
<body>

    <h1>Spicy Delight Restaurant</h1>
```

```html
<p>
   Welcome to Spicy Delight! We serve fresh and delicious Indian food
   with authentic taste and quality ingredients.
</p>

<h2>Menu Categories</h2>
<ul>
   <li>Main Course</li>
   <li>Breakfast</li>
   <li>Beverages</li>
</ul>

<h2>Price List</h2>
<table border="1">
   <tr>
      <th>Item Name</th>
      <th>Category</th>
      <th>Price ($)</th>
   </tr>
   <tr>
      <td>Paneer Butter Masala</td>
      <td>Main Course</td>
      <td>$220</td>
   </tr>
   <tr>
      <td>Veg Biryani</td>
      <td>Main Course</td>
      <td>$180</td>
   </tr>
   <tr>
      <td>Masala Dosa</td>
      <td>Breakfast</td>
      <td>$90</td>
   </tr>
   <tr>
      <td>Cold Coffee</td>
      <td>Beverages</td>
      <td>$120</td>
   </tr>
```

```
        </table>

    </body>
</html>
```

Output :-

Spicy Delight Restaurant

Welcome to Spicy Delight! We serve fresh and delicious Indian food with authentic taste and quality ingredients.

Menu Categories

- Main Course
- Breakfast
- Beverages

Price List

Item Name	Category	Price ($)
Paneer Butter Masala	Main Course	$220
Veg Biryani	Main Course	$180
Masala Dosa	Breakfast	$90
Cold Coffee	Beverages	$120

Explanation :-

- This HTML page uses the proper boilerplate structure including `DOCTYPE`, `html`, `head`, and body tags.
- The restaurant name is displayed using a heading tag, which makes it bold and important.
- A paragraph tag is used to describe the restaurant and give basic information about it.
- An unordered list is used to show different menu categories like Main Course, Breakfast, and Beverages.
- A table is created using `<table>`, `<tr>`, `<th>`, and `<td>` tags to display item name, category, and price in rows and columns.

- HTML attributes like `border`, `title`, and `align` are used to improve the appearance and structure of the webpage.

Problem 3

3. **Problem Statement** - Create a basic HTML webpage titled **Weekly Grocery Checklist** that includes a main heading, an ordered list for high-priority items like rice and milk, and an unordered list for optional items like snacks and ice cream, using proper HTML structure and at least one attribute.

Code :-

```html
<!DOCTYPE html>
<html>
<head>
  <title>Weekly Grocery Checklist</title>
</head>
<body>

  <!-- Main Heading -->
  <h1 title="My Weekly Grocery Planning List">
    Weekly Grocery Checklist
  </h1>

  <!-- High Priority Items -->
  <h2>High Priority Items</h2>
  <ol title="Essential Grocery Items">
    <li>Rice</li>
    <li>Milk</li>
    <li>Vegetables</li>
    <li>Cooking Oil</li>
  </ol>

  <!-- Optional Items -->
  <h2>Optional Items</h2>
  <ul title="Non-Essential Grocery Items">
    <li>Snacks</li>
    <li>Ice cream</li>
    <li>Soft drinks</li>
  </ul>
```

</body>
</html>

Output :-

Weekly Grocery Checklist

High Priority Items

1. Rice
2. Milk
3. Vegetables
4. Cooking Oil

Optional Items

- Snacks
- Ice cream
- Soft drinks

Explanation :-

- This HTML page uses the proper boilerplate structure including `<!DOCTYPE html>`, `<html>`, `<head>`, and `<body>` tags.
- The title **"Weekly Grocery Checklist"** is added inside the `<head>` section and also displayed as a main heading in the body.
- An ordered list `<ol>` is used to show high-priority grocery items like rice, milk, vegetables, and cooking oil in numbered form.
- An unordered list `<ul>` is used to display optional items like snacks, ice cream, and soft drinks in bullet points.
- The `<li>` tag is used for each item, and at least one attribute like `title` is included to provide additional information about the page.

Problem 4

4. **Problem Statement** - Create an Employee Onboarding HTML page using semantic tags like `<header>`, `<section>`, `<article>`, and `<footer>`, including a table for employee details, an ordered list for company policies, and an unordered list for facilities, with proper structure and meaningful attributes.

Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Employee Onboarding Page</title>
  <meta charset="UTF-8">
</head>

<body>

  <!-- Header Section -->
  <header title="Company Header">
    <h1>ABC Technologies Pvt Ltd</h1>
    <p>Welcome to the Employee Onboarding Portal</p>
  </header>

  <!-- Employee Details Section -->
  <section>
    <h2>Employee Information</h2>

    <table border="1" title="Employee Details Table">
      <tr>
        <th>Employee ID</th>
        <th>Name</th>
        <th>Department</th>
        <th>Joining Date</th>
      </tr>
      <tr>
        <td>EMP101</td>
        <td>Rama Krishna</td>
        <td>Software Development</td>
        <td>16-02-2026</td>
      </tr>
    </table>
```

```html
    </section>

    <!-- Company Policies Article -->
    <article>
        <h2>Company Policies</h2>
        <ol>
            <li>Working hours: 9 AM to 6 PM</li>
            <li>Leave policy: 12 paid leaves per year</li>
            <li>Code of conduct must be followed strictly</li>
        </ol>
    </article>

    <!-- Facilities Section -->
    <section>
        <h2>Facilities Provided</h2>
        <ul>
            <li>Laptop</li>
            <li>Internet access</li>
            <li>Training materials</li>
        </ul>
    </section>

    <!-- Footer Section -->
    <footer>
        <p>Contact HR: hr@abctech.com</p>
        <p>Phone: +91 9876543210</p>
    </footer>

</body>
</html>
```

Output :-

ABC Technologies Pvt Ltd

Welcome to the Employee Onboarding Portal

Employee Information

Employee ID	Name	Department	Joining Date
EMP101	Rama Krishna	Software Development	16-02-2026

Company Policies

1. Working hours: 9 AM to 6 PM
2. Leave policy: 12 paid leaves per year
3. Code of conduct must be followed strictly

Facilities Provided

- Laptop
- Internet access
- Training materials

Contact HR: hr@abctech.com

Phone: +91 9876543210

Explanation :-

- This HTML page uses semantic tags like `<header>`, `<section>`, `<article>`, and `<footer>` to organize the content clearly.
- The `<header>` section displays the company name and a welcome message for new employees.
- The `<section>` contains a table showing employee details such as Employee ID, Name, Department, and Joining Date.
- The `<article>` includes an ordered list that explains important company policies like working hours and leave policy.
- An unordered list is used to display facilities provided to employees such as a laptop and training materials.

- The `<footer>` provides contact information, and meaningful attributes like `lang` and `title` are added for better structure and accessibility.

Problem 5

5. **Problem Statement** - Create a Computer Science Department HTML webpage using semantic tags that includes a header with college and department name, sections for faculty details, subjects offered, and weekly timetable (using tables and lists), and a footer with contact information.

Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Computer Science Department - Jntu College</title>
</head>

<body>

  <!-- Header Section -->
  <header title="Department Header">
    <h1>Jntu College of Engineering</h1>
    <h2>Department of Computer Science</h2>
  </header>

  <!-- Section 1: Faculty Details -->
  <section>
```

```html
<h2>Faculty Details</h2>

<table border="1" title="Faculty Information Table">
  <tr>
    <th>Faculty Name</th>
    <th>Designation</th>
    <th>Subject Handled</th>
  </tr>
  <tr>
    <td>Dr. Suresh Kumar</td>
    <td>Professor</td>
    <td>Data Structures</td>
  </tr>
  <tr>
    <td>Ms. Anjali Rao</td>
    <td>Assistant Professor</td>
    <td>Database Management Systems</td>
  </tr>
  <tr>
    <td>Mr. Ravi Teja</td>
    <td>Lecturer</td>
    <td>Web Technologies</td>
  </tr>
</table>
</section>

<!-- Section 2: Subjects Offered -->
```

```html
<section>

    <h2>Subjects Offered</h2>


    <ul title="List of Subjects">

        <li>Data Structures</li>

        <li>Database Management Systems</li>

        <li>Operating Systems</li>

        <li>Computer Networks</li>

        <li>Web Technologies</li>

    </ul>

</section>


<!-- Section 3: Weekly Timetable -->

<section>

    <h2>Weekly Timetable</h2>


    <table border="1" title="Weekly Timetable">

        <tr>

            <th>Day</th>

            <th>Subject</th>

            <th>Time Slot</th>

        </tr>

        <tr>

            <td>Monday</td>

            <td>Data Structures</td>

            <td>9:00 AM - 10:00 AM</td>

        </tr>
```

```html
        <tr>
            <td>Tuesday</td>
            <td>DBMS</td>
            <td>10:00 AM - 11:00 AM</td>
        </tr>
        <tr>
            <td>Wednesday</td>
            <td>Operating Systems</td>
            <td>11:00 AM - 12:00 PM</td>
        </tr>
        <tr>
            <td>Thursday</td>
            <td>Web Technologies</td>
            <td>1:00 PM - 2:00 PM</td>
        </tr>
        <tr>
            <td>Friday</td>
            <td>Computer Networks</td>
            <td>2:00 PM - 3:00 PM</td>
        </tr>
    </table>
  </section>


  <!-- Footer Section -->
  <footer>
     <p><strong>Address:</strong> Jntu College, Hyderabad, Telangana, India</p>
```

```
<p><strong>Contact:</strong> info@Jntucollege.edu | +91 9876543210</p>

  </footer>


</body>

</html>
```

Output :-

Jntu College of Engineering

Department of Computer Science

Faculty Details

Faculty Name	Designation	Subject Handled
Dr. Suresh Kumar	Professor	Data Structures
Ms. Anjali Rao	Assistant Professor	Database Management Systems
Mr. Ravi Teja	Lecturer	Web Technologies

Subjects Offered

- Data Structures
- Database Management Systems
- Operating Systems
- Computer Networks
- Web Technologies

Weekly Timetable

Day	Subject	Time Slot
Monday	Data Structures	9:00 AM - 10:00 AM
Tuesday	DBMS	10:00 AM - 11:00 AM
Wednesday	Operating Systems	11:00 AM - 12:00 PM

Faculty Details

Faculty Name	Designation	Subject Handled
Dr. Suresh Kumar	Professor	Data Structures
Ms. Anjali Rao	Assistant Professor	Database Management Systems
Mr. Ravi Teja	Lecturer	Web Technologies

Subjects Offered

- Data Structures
- Database Management Systems
- Operating Systems
- Computer Networks
- Web Technologies

Weekly Timetable

Day	Subject	Time Slot
Monday	Data Structures	9:00 AM - 10:00 AM
Tuesday	DBMS	10:00 AM - 11:00 AM
Wednesday	Operating Systems	11:00 AM - 12:00 PM
Thursday	Web Technologies	1:00 PM - 2:00 PM
Friday	Computer Networks	2:00 PM - 3:00 PM

Address: Jntu College, Hyderabad, Telangana, India

Contact: info@Jntucollege.edu | +91 9876543210

Explanation :-

1. This HTML page uses proper structure with `<!DOCTYPE html>`, `<html lang="en">`, `<head>`, and `<body>` tags.
2. The `<header>` section displays the college name and the Department of Computer Science as headings.
3. The first `<section>` contains a table showing faculty details like faculty name, designation, and subject handled.
4. The second `<section>` uses an unordered list to display the subjects offered by the department.
5. The third `<section>` includes a table that shows the weekly timetable with day, subject, and time slot.

6. The `<footer>` section provides the college address and contact information at the bottom of the page.