HTML5 – Day – 1 Hands On – Harshitha Kamatam

Problem 1

Problem Statement:

1. Create a basic HTML page with proper structure (DOCTYPE, head, body)
2. Add a heading and a paragraph introducing yourself
3. Create an unordered list showing your hobbies
4. Create an ordered list showing daily routine steps
5. Create a simple table showing:
   - Student Name
   - Subject
   - Marks

Source Code:

```html
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset="UFT-8">
    <title>Hi Sir Welcome To My First HTML page</title>
</head>
<body>
    <h1>Welcome to My HTML Page</h1>
    <p>Hello! My name is Harshitha Kamatam. I am from Andhra pradesh.</p>
    <h2>My hobbies</h2>
    <ul>
        <li>cooking</li>
        <li>yoga</li>
        <li>listening music</li>
    </ul>
    <h2>Daily rotuine Steps</h2>
    <ol>
        <li>wakeup</li>
        <li>Exercise</li>
        <li>Study</li>
        <li>Relax and speding time with frnds and fam</li>
    </ol>
    <h2>Student Records</h2>
    <table border="1">
        <tr>
            <th>Student name</th>
            <th>subject</th>
            <th>Marks</th>
        </tr>
        <tr>
            <td>Ram</td>
            <td>Html</td>
            <td>99</td>
        </tr>
        <tr>
            <td>Sham</td>
            <td>css</td>
            <td>90</td>
        </tr>
    </table>
</body>
</html>
```

Output:

Welcome to My HTML Page

Hello! My name is Harshitha Kamatam. I am from Andhra pradesh.

My hobbies

- cooking
- yoga
- listening music

Daily rotuine Steps

1. wakeup
2. Exercise
3. Study
4. Relax and speding time with frnds and fam

Student Records

Student name	subject	Marks
Ram	Html	99
Sham	css	90

Explanation:

This code creates a simple personal webpage. It shows a welcome heading, a short introduction about me, My hobbies in bullet points, My daily routine in numbered form, and a table with student details like Name, Subject, and Marks.

Problem 2

Problem Statement:

A small restaurant wants a basic menu webpage to display their offerings online before moving to a full website.

Requirements

Create an HTML page that displays:

1. Restaurant Name (Heading)
2. About the Restaurant (Paragraph)
3. Menu Categories (Unordered List)
4. Price List (Table)

Technical Constraints

- Use proper **HTML boilerplate**
- Use at least **5 HTML elements**
- Use **HTML attributes** such as border, title, align
- Use:
    - <table>, <tr>, <th>, <td>
    - and

Learning Outcome

You should be able to:

- Build a complete HTML page structure
- Use tables for structured data
- Use lists for grouped information

Source Code:

```
day 1 > <> Problem2.html > ...
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UFT-8">
    <title>Restaturant Menu</title>
</head>
<body>
    <h1>Abc Restaturant</h1>
    <h2>About the Restaturant</h2>
    <p>Welcome to our Abc restaturant! We Serve indian veg food </p>
    <h2>menu Categories</h2>
    <ul>
        <li>Breakfast</li>
        <li>Main Menu</li>
        <li>Beverages</li>
    </ul>
    <h2>Price List</h2>
    <table border="1" alin="center">
        <tr>
            <th>Item Name</th>
            <th>Categories</th>
            <th>price</th>
        </tr>
        <tr>
            <td>Paneer Butter Masala</td>
            <td>main Course</td>
            <td>220</td>
        </tr>
        <tr>
            <td>Veg Biriyani</td>
            <td>Main Course</td>
            <td>180</td>
        </tr>
        <tr>
            <td>Masala Dosa</td>
            <td>Breakfast</td>
            <td>90</td>
        <tr>
            <td>Cold Coffe</td>
            <td>Beverages</td>
            <td>120</td>
        </tr>
    </table>
</body>
</html>
```

Output:

Abc Restaturant

About the Restaturant

Welcome to our Abc restaturant! We Serve indian veg food

menu Categories

- Breakfast
- Main Menu
- Beverages

Price List

Item Name	Categories	price
Paneer Butter Masala	main Course	220
Veg Biriyani	Main Course	180
Masala Dosa	Breakfast	90
Cold Coffe	Beverages	120

Explanation:

This code creates a simple restaurant webpage for **ABC Restaurant**. It shows the restaurant name, a short welcome message, menu categories in bullet points, and a table with item names, categories, and prices.

Problem 3

Problem Statement:

You are building a **simple webpage for personal use** to plan your weekly grocery shopping. The page should clearly show **priority items** and **optional items**, so it's easy to decide what to buy first.

Requirements

Create an HTML webpage that includes:

1. A **page title**:
   Weekly Grocery Checklist
2. A **main heading** displaying the same title.
3. An **Ordered List** showing **high-priority grocery items**, such as:
   - Rice
   - Milk
   - Vegetables
   - Cooking Oil
4. An **Unordered List** showing **optional or non-essential items**, such as:
   - Snacks
   - Ice cream
   - Soft drinks

Technical Constraints

- Use proper **HTML boilerplate**:
  - <!DOCTYPE html>
  - <html>, <head>, <body>

- Use:
    - and <ul> correctly
    - for each item
- Add at least **one HTML attribute** (example: title)
- Ensure **proper indentation and readability**

Learning Outcome

You will be able to:

- Create structured content using HTML lists
- Choose the correct list type based on real-world requirements
- Understand how HTML represents **logical order and grouping**
- Build confidence in writing basic but meaningful HTML pages

Source Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UFT-8">
    <title>Weekly Grocery Checklist</title>
</head>
<body>
    <h1>Weekly Grocery Checklist</h1>
    <h2>High Priority items</h2>
    <ol title="Items i need to buy every week">
        <li>Rice</li>
        <li>Milk</li>
        <li>vegtables</li>
        <li>Cooking oil</li>
    </ol>
    <h2>Optional</h2>
    <ul title="Things i might buy">
        <li>Snacks</li>
        <li>icecream</li>
        <li>Cooking oil</li>
    </ul>
</body>
</html>
```

Output:

Weekly Grocery Checklist

High Priority items

1. Rice
2. Milk
3. vegtables
4. Cooking oil

Optional

- Snacks
- icecream
- Cooking oil

Explanation:

This code creates a simple webpage for a **Weekly Grocery Checklist**. It shows a main heading, then high-priority items in a numbered list, and option items in bullet points.

Problem 4

Problem Statement:

A company wants a **basic onboarding page** for new employees that HR can later style using CSS.

⚡ Requirements

Use Semantic HTML:

- <header> → Company name & welcome message
- <section> → Employee details
- <article> → Company policies
- <footer> → Contact information

Content Structure

1. **Employee Information (Table)**
    - Employee ID
    - Name
    - Department
    - Joining Date
2. **Company Policies (Ordered List)**
    - Working hours
    - Leave policy
    - Code of conduct
3. **Facilities Provided (Unordered List)**
    - Laptop
    - Internet access
    - Training materials

Technical Constraints

- Use **semantic tags only** (no for layout)
- Add **meaningful attributes** (title, lang, etc.)
- Proper indentation & readability

Learning Outcome

Learners should be able to:

- Explain **why semantic HTML matters**
- Differentiate between structural and non-structural tags
- Build readable, SEO-friendly HTML

Source Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Welcome to the company - Onboarding</title>
</head>
<body>
    <header>
        <h1>Techno Solutions</h1>
        <p>Welcome! We're excited to have you join our team.</p>
    </header>
    <main>
        <section>
            <h2>Employee Information</h2>
            <table>
                <thead>
                    <tr>
                        <th scope="col">Employee iD</th>
                        <th scope="col">Name</th>
                        <th scope="col">Department</th>
                        <th scope="col">joining Date</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>EMP2026001</td>
                        <td>Harshitha </td>
                        <td>Engineering</td>
                        <td>Feb 15, 2026</td>
                    </tr>
                </tbody>
            </table>
        </section>

        <article>
            <h2>Company Policies</h2>
            <ol>
                <li>Working hours: 9:00 AM  6:00 PM (Mon Fri)</li>
                <li>Leave policy: 18 paid leaves per year + casual/sick leave</li>
                <li>Code of conduct: Respect, integrity, confidentiality</li>
            </ol>

            <h3>Facilities Provided</h3>
            <ul>
                <li>Laptop</li>
                <li>Internet access</li>
                <li>Training materials</li>
                <li>Access to internal tools & documentation</li>
            </ul>
        </article>
    </main>

    <footer>
        <p>Contact HR: hr@techno.com | Phone: +91 998733786</p>
        <p>&copy; 2026 Techno Solutions. All rights reserved.</p>
    </footer>

</body>
</html>
```

Output:

Techno Solutions

Welcome! We're excited to have you join our team.

Employee Information

Employee iD	Name	Department	joining Date
EMP2026001	Harshitha	Engineering	feb 15, 2026

Company Policies

1. Working hours: 9:00 AM – 6:00 PM (Mon–Fri)
2. Leave policy: 18 paid leaves per year + casual/sick leave
3. Code of conduct: Respect, integrity, confidentiality

Facilities Provided

- Laptop
- Internet access
- Training materials
- Access to internal tools & documentation

Contact HR: hr@techno.com | Phone: +91 998733786

Explanation:

This code creates a simple company webpage for **techno solutions**. It shows a header with the company name, a table displaying employee details, company policies in a numbered list, facilities in bullet points, and a contact email in the footer.

Problem 5

Problem Statement:

A college wants to create a **basic informational webpage** for one of its departments (e.g., Computer Science, Information Technology).
The page will be used by **students and parents** to understand faculty details, subjects offered, and the weekly timetable before the site is enhanced with CSS and backend features.

⚡ Requirements

Create an HTML webpage that includes the following sections:

1. **Header**
    - Department Name
    - College Name
2. **Section 1: Faculty Details**
    - Display faculty information in a **table** with columns:
        - Faculty Name
        - Designation
        - Subject Handled
3. **Section 2: Subjects Offered**
    - Display the list of subjects using an **unordered list**
4. **Section 3: Weekly Timetable**
    - Display timetable details in a **table** with columns:
        - Day
        - Subject
        - Time Slot

5. **Footer**
    - College address
    - Contact information

⚔ Technical Constraints

- Use proper **HTML document structure**:
    - <!DOCTYPE html>
    - <html>, <head>, <body>
- Use **semantic HTML elements**:
    - <header>, <section>, <footer>
- Use:
    - <table>, <tr>, <th>, <td>
    - and
- Add meaningful **HTML attributes** such as lang or title
- Avoid CSS and JavaScript (HTML only)

🎯 Learning Outcome

You will be able to:

- Build real-world HTML pages with structured content
- Understand how semantic HTML improves readability and maintenance
- Organize information logically using tables and lists
- Prepare HTML content that is ready for CSS styling and backend integration

Source Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Department of AI & DS - Audisankara Institute of Technology</title>
</head>
<body>

    <header>
        <h1>Department of Artificial Intelligence</h1>
        <p>Audisankara Institute of Technology</p>
        <p>Autonomous | Affiliated to JNTUA | Accredited by NAAC with 'A' Grade</p>
    </header>
    <main>

        <section>
            <h2>Faculty Details</h2>

            <table border="1">
                <thead>
                    <tr>
                        <th>Faculty Name</th>
                        <th>Designation</th>
                        <th>Subject Handled</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>Dr. P. Eswar </td>
                        <td>Professor & Head</td>
                        <td>Advanced Data Structures, Machine Learning</td>
                    </tr>
                    <tr>
                        <td>Mrs. K. Prasanna</td>
                        <td>Associate Professor</td>
                        <td>Database Management Systems, Data Warehousing</td>
                    </tr>
                    <tr>
                        <td>Mr. G. Kumar</td>
                        <td>Assistant Professor</td>
                        <td>Software Engineering, Cloud Computing</td>
                    </tr>
                </tbody>
            </table>
        </section>
        <section>
            <h2>Subjects Offered (B.Tech - Artificial Intelligence)</h2>

            <ul>
                <li>Programming for Problem Solving (C & Python)</li>
                <li>Data Structures and Algorithms</li>
                <li>Object Oriented Programming through Java</li>
                <li>Database Management Systems</li>
                <li>Operating Systems</li>

            </ul>
        </section>
        <section>
            <h2>Weekly Timetable</h2>

            <table border="1">
                <thead>
```

```
64
65                          <th>Day</th>
66                          <th>Subject</th>
67                          <th>Time Slot</th>
68                      </thead>
69                      <tbody>
70                          <tr>
71                              <td>Monday</td>
72                              <td>Machine Learning</td>
73                              <td>09:00 AM - 10:00 AM</td>
74                          </tr>
75                          <tr>
76                              <td >Thursday</td>
77                              <td>Cloud Computing</td>
78                              <td>09:00 AM - 10:00 AM</td>
79                          </tr>
80
81                          <tr>
82                              <td>Friday</td>
83                              <td>Compiler Design</td>
84                              <td>09:00 AM - 10:00 AM</td>
85                          </tr>
86
87                      </tbody>
88                  </table>
89              </section>
90          </main>
91          <footer>
92              <p><strong>Audisankara Institute of Technology</strong></p>
93              <p>Gudur, NH-16, Tirupati District - 532410</p>
94              <p>Andhra Pradesh, India</p>
95              <p>Phone: +91 8878543275 | Email: principal@svit.edu.in</p>
96              <p>Website: www.asui.edu.in</p>
97          </footer>
98      </body>
99      </html>
```

Output:

Department of Artificial Intelligence

Audisankara Institute of Technology

Autonomous | Affiliated to JNTUA | Accredited by NAAC with 'A' Grade

Faculty Details

Faculty Name	Designation	Subject Handled
Dr. P. Eswar	Professor & Head	Advanced Data Structures, Machine Learning
Mrs. K. Prasanna	Associate Professor	Database Management Systems, Data Warehousing
Mr. G. Kumar	Assistant Professor	Software Engineering, Cloud Computing

Subjects Offered (B.Tech - Artificial Intelligence)

- Programming for Problem Solving (C & Python)
- Data Structures and Algorithms
- Object Oriented Programming through Java
- Database Management Systems
- Operating Systems

Weekly Timetable

Day	Subject	Time Slot
Monday	Machine Learning	09:00 AM - 10:00 AM
Thursday	Cloud Computing	09:00 AM - 10:00 AM
Friday	Compiler Design	09:00 AM - 10:00 AM

Audisankara Institute of Technology

Gudur, NH-16, Tirupati District - 532410

Andhra Pradesh, India

Phone: +91 8878543275 | Email: principal@svit.edu.in

Website: www.asui.edu.in

Explanation:

This code creates a simple webpage for Artifical intelligence. It shows the college name, faculty details in a table, subjects offered in a bullet list, a weekly timetable in another table, and contact information at the bottom.