

## HTML5 – Day – 1 Hands On – Kaveri Harish Babu

### 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:
  - o Student Name
  - o Subject
  - o Marks

Source Code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>My HTML Page</title>
6  </head>
7  <body>
8      <h1>Welcome to My Page</h1>
9      <p>Hi Everyone. My Name is Harish Babu Kaveri. I am from Andhra Pradesh.</p>
10     <h2>My Hobbies</h2>
11     <ul>
12         <li>Reading</li>
13         <li>Playing Games</li>
14         <li>Listening Music</li>
15     </ul>
16
17     <h2>My Daily Routine</h2>
18     <ol>
19         <li>Wake up</li>
20         <li>Exercise</li>
21         <li>Sleep</li>
22     </ol>
23
24     <h2>Student Details</h2>
25     <table border="1">
26         <tr>
27             <th>Student Name</th>
28             <th>Subject</th>
29             <th>Marks</th>
30         </tr>
31         <tr>
32             <td>Harish</td>
33             <td>Maths</td>
34             <td>87</td>
35         </tr>
36         <tr>
37             <td>Balaji</td>
38             <td>Physics</td>
39             <td>90</td>
40         </tr>
41     </table>
42
43     </body>
44 </html>
```

Output:

## Welcome to My Page

Hi Everyone. My Name is Harish Babu Kaveri. I am from Andhra Pradesh.

### My Hobbies

- Reading
- Playing Games
- Listening Music

### My Daily Routine

1. Wake up
2. Exercise
3. Sleep

### Student Details

Student Name	Subject	Marks
Harish	Maths	87
Balaji	Physics	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>
  - <ul> and <li>

### 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:

```
1  <!DOCTYPE html>
2  <html lan="en">
3  <head>
4      <meta charset="UTF-8">
5      <title> HBK Restaurant </title>
6  </head>
7  <body>
8      <h1> HBK Restaurant </h1>
9      <p> Welcome to HBK Restaurant. Here you can choose Continental Dishes. </p>
10
11     <h2> Menu Categories </h2>
12     <ul>
13         <li> Main Course </li>
14         <li> Breakfast </li>
15         <li> Beverages </li>
16     </ul>
17     <table border = "1">
18         <tr>
19             <th> Item Name </th>
20             <th> Category </th>
21             <th> Price </th>
22         </tr>
23
24         <tr>
25             <td> Paneer Butter Masala </td>
26             <td> Main Course </td>
27             <td> Rs. 220 </td>
28         </tr>
29
30         <tr>
31             <td> Veg Biryani </td>
32             <td> Main Course </td>
33             <td> Rs. 180 </td>
34         </tr>
35
36         <tr>
37             <td> Masala Dosa </td>
38             <td> Breakfast </td>
39             <td> Rs. 90 </td>
40         </tr>
41
42         <tr>
43             <td> Cold Coffee </td>
44             <td> Beverages </td>
45             <td> Rs.120 </td>
46         </tr>
47     </table>
48 </body>
49 </html>
```

## Output:

# HBK Restaurant

Welcome to HBK Restaurant. Here you can choose Continental Dishes.

## Menu Categories

- Main Course
- Breakfast
- Beverages

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

## Explanation:

This code creates a simple restaurant webpage for **HBK 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:
  - <ol> and <ul> correctly
  - <li> 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:

```

1  <!DOCTYPE html>
2  <html lan="en">
3  | <head>
4  | | <meta charset="UTF-8">
5  | | <title> Weekly Grocery Checklist </title>
6  | </head>
7  | <body>
8  | | <h2> Weekly Grocery Checklist </h2>
9  | | <h3> High Priority Grocery Items </h3>
10 | | <ol>
11 | | | <li> Rice </li>
12 | | | <li> Milk </li>
13 | | | <li> Vegetables </li>
14 | | </ol>
15 | | <h3> Non-Essential Items </h3>
16 | | <ul>
17 | | | <li> Snacks </li>
18 | | | <li> Ice Cream </li>
19 | | | <li> Soft Drinks </li>
20 | | </ul>
21 | </body>
22 | </head>
```

Output:

# **Weekly Grocery Checklist**

## **High Priority Grocery Items**

1. Rice
2. Milk
3. Vegetables

## **Non-Essential Items**

- Snacks
- Ice Cream
- Soft Drinks

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 non-essential 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 <div> 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:

```
1  <!DOCTYPE html>
2  <html lan="en">
3  <html>
4  <head>
5      <meta charset="UTF-8">
6      <title> HBK Company </title>
7  </head>
8
9  <body>
10 <header>
11     <h1> HBK COMPANY </h1>
12     <p> Welcome to our Company </p>
13 </header>
14 <section>
15     <h2> Employee Details </h2>
16     <table border="1">
17         <tr>
18             <th> Employee Id </th>
19             <th> Name </th>
20             <th> Department </th>
21             <th> Joining Date </th>
22         </tr>
23         <tr>
24             <td> 10021 </td>
25             <td> Harish Babu K </td>
26             <td> SDE-I </td>
27             <td> 16-02-2026 </td>
28         </tr>
29         <tr>
30             <td> 10022 </td>
31             <td> Balaji M </td>
32             <td> ASE </td>
33             <td> 01-02-2026 </td>
34         </tr>
35     </table>
36 </section>
37
38 <article>
39     <h3> Company Policies </h3>
40     <ol>
41         <li> Working Hours </li>
42         <li> Leave Policy </li>
43         <li> Code of Conduct </li>
44     </ol>
45 </article>
46
47 <section>
48     <h3> Facilities Provided </h3>
49     <ul>
50         <li> Laptop </li>
51         <li> Internet Access </li>
52         <li> Training Materials </li>
53     </ul>
54 </section>
55
56 <footer>
57     <p> Contact HR: hr@abcompany.com </p>
58 </footer>
59 </body>
60 </html>
```

Output:

# HBK COMPANY

Welcome to our Company

## Employee Details

Employee Id	Name	Department	Joining Date
10021	Harish Babu K	SDE-I	16-02-2026
10022	Balaji M	ASE	01-02-2026

## Company Policies

1. Working Hours
2. Leave Policy
3. Code of Conduct

## Facilities Provided

- Laptop
- Internet Access
- Training Materials

Contact HR: hr@abcompany.com

Explanation:

This code creates a simple company webpage for **HBK Company**. 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>
  - <ul> and <li>
- 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:

```
1  <!DOCTYPE html>
2  <html lan="en">
3  <head>
4      <meta charset="UTF-8">
5      <title> College Department Information Page </title>
6  </head>
7  <body>
8      <header>
9          <h1> Computer Science Department </h1>
10         <h2> XYZ Engineering College </h2>
11     </header>
12
13     <section>
14         <h2> Faculty Details </h2>
15         <table border="1">
16             <tr>
17                 <th> Faculty Name </th>
18                 <th> Designation </th>
19                 <th> Subject Handled </th>
20             </tr>
21
22             <tr>
23                 <td> M.Rajaiah </td>
24                 <td> Professor </td>
25                 <td> Mathematics </td>
26             </tr>
27
28             <tr>
29                 <td> K.Kavitha </td>
30                 <td> Assistant Professor </td>
31                 <td> Operating Systems </td>
32             </tr>
33         </table>
34     </section>
35
36     <section>
37         <h2> Subjects Offered </h2>
38         <ul>
39             <li> Python Programming </li>
40             <li> Java </li>
41             <li> Operating Systems </li>
42         </ul>
43     </Section>
```

```
40           <li> Java </li>
41           <li> Operating Systems </li>
42     </ul>
43   </Section>
44
45   <Section>
46     <h2> Weekly Time-Table </h2>
47     <table border="1">
48       <tr>
49         <th> Day </th>
50         <th> Subject </th>
51         <th> Time Slot </th>
52       </tr>
53
54       <tr>
55         <td> Monday </td>
56         <td> Python Programming </td>
57         <td> 09:30AM - 12:30PM </td>
58       </tr>
59
60       <tr>
61         <td> Tuesday </td>
62         <td> Java </td>
63         <td> 09:30AM - 12:30PM </td>
64       </tr>
65
66       <tr>
67         <td> Wednesday </td>
68         <td> Operating Systems </td>
69         <td> 09:30AM - 12:30PM </td>
70       </tr>
71     </table>
72   </Section>
73
74   <h2> College Contact Information </h2>
75   <footer>
76     <p> XYZ Engineering College </p>
77     <p> Email: XYZ@college.in </p>
78     <p> Mobile: +91 XXXXX XXXXX </p>
79   </footer>
80 </body>
81 </html>
```

Output:

## Computer Science Department

### XYZ Engineering College

#### Faculty Details

Faculty Name	Designation	Subject Handled
M.Rajaiah	Professor	Mathematics
K.Kavitha	Assistant Professor	Operating Systems

#### Subjects Offered

- Python Programming
- Java
- Operating Systems

#### Weekly Time-Table

Day	Subject	Time Slot
Monday	Python Programming	09:30AM - 12:30PM
Tuesday	Java	09:30AM - 12:30PM
Wednesday	Operating Systems	09:30AM - 12:30PM

#### College Contact Information

XYZ Engineering College

Email: XYZ@college.in

Mobile: +91 XXXXX XXXXX

Explanation:

This code creates a simple webpage for a Computer Science Department. 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.