

## HTML5 – Day-2 Hands On – Chintha Ramakrishna

### Problem 1

1. **Problem Statement** - Create two HTML pages (Home and Contact), link them using navigation links, and add a registration form with Name, Email, Password, Gender (radio buttons), Course (dropdown), and use required and placeholder attributes.

Code :-

Registration form :-

```
<!DOCTYPE html>
<html>
<head>
    <title>Home Page</title>
</head>
<body>

<!-- Name Heading -->
<h1>Rama Krishna</h1>

<!-- Navigation Bar -->
<nav>
    <a href="index.html">Home</a> |
    <a href="contact.html">Contact</a>
</nav>

<hr>

<h2>Registration Form</h2>

<form>

<label>Name:</label><br>
<input type="text" placeholder="Enter your name" required>
<br><br>

<label>Email:</label><br>
```

```

<input type="email" placeholder="Enter your email" required>
<br><br>

<label>Password:</label><br>
<input type="password" placeholder="Enter password" required>
<br><br>

<label>Gender:</label><br>
<input type="radio" name="gender" required> Male
<input type="radio" name="gender" required> Female
<br><br>

<!-- Data List -->
<label>Select Course:</label><br>
<input list="courses" placeholder="Select or type course" required>

<datalist id="courses">
  <option value="HTML">
  <option value="CSS">
  <option value="JavaScript">
  <option value="Python">
</datalist>
<br><br>

<input type="submit" value="Register">

</form>

</body>
</html>

```

## Contact code:-

```

<!DOCTYPE html>
<html>
<head>
  <title>Contact Page</title>
</head>

```

```
<body>

<!-- Navigation Bar -->
<nav>
    <a href="registration.html">Home</a> |
    <a href="contact.html">Contact</a>

</nav>

<h1>Contact Us</h1>

<p>Email: support@example.com</p>
<p>Phone: +91 9876543210</p>

</body>
</html>
```

Output :-

# Rama Krishna

[Home](#) | [Contact](#)

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## Registration Form

Name:

Email:

Password:

Gender:

☐ Male ☐ Female

Select Course:

[Home](#) | [Contact](#)

# Contact Us

Email: [support@example.com](mailto:support@example.com)

Phone: +91 9876543210

## Explanation :-

- This project creates two HTML pages and connects them using navigation links.
- The navigation bar contains **Home** and **Contact** links to move between pages.
- The registration form collects user details like Name, Email, and Password.
- It also includes Gender selection using radio buttons and Course selection using a dropdown list.
- The required and placeholder attributes help users enter correct information before submitting the form.

## Problem 2

2. **Problem Statement** - Create three HTML pages (Home, Courses, Contact) using only HTML5, add a semantic <nav> menu with working relative links on all pages, and include one internal anchor link and one external link.

## Code :-

## Index code :-

```
<!DOCTYPE html>
<html>
<head>
  <title>Home - Coaching Institute</title>
</head>
<body>

<h1>ABC Coaching Institute</h1>

<!-- Navigation Menu -->
```

```

<nav>
  <a href="index.html">Home</a> |
  <a href="courses.html">Courses</a> |
  <a href="contact.html">Contact</a> |
  <a href="#about">About Us</a> |
  <a href="https://www.instagram.com" target="_blank">Instagram</a>
</nav>

<hr>

<h2>Welcome to Our Institute</h2>
<p>We provide quality education for students.</p>

<!-- Internal Section -->
<h2 id="about">About Us</h2>
<p>
ABC Coaching Institute offers professional training in programming,
web development, and competitive exams.
</p>

</body>
</html>

```

### Courses code :-

```

<!DOCTYPE html>
<html>
<head>
  <title>Courses - Coaching Institute</title>
</head>
<body>

<h1>ABC Coaching Institute</h1>

<nav>
  <a href="index.html">Home</a> |
  <a href="courses.html">Courses</a> |
  <a href="contact.html">Contact</a>
</nav>

<hr>

```

```
<h2>Our Courses</h2>

<ul>
  <li>HTML & CSS</li>
  <li>JavaScript</li>
  <li>Python Programming</li>
  <li>Data Structures</li>
</ul>

</body>
</html>
```

### Contact :-

```
<!DOCTYPE html>
<html>
<head>
  <title>Contact - Coaching Institute</title>
</head>
<body>

<h1>ABC Coaching Institute</h1>

<nav>
  <a href="index.html">Home</a> |
  <a href="courses.html">Courses</a> |
  <a href="contact.html">Contact</a>
</nav>

<hr>

<h2>Contact Us</h2>

<p>Email: abc@gmail.com</p>
<p>Phone: +91 9876543210</p>

</body>
</html>
```

### Output :-

# ABC Coaching Institute

[Home](#) | [Courses](#) | [Contact](#) | [About Us](#) | [Instagram](#)

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## Welcome to Our Institute

We provide quality education for students.

## About Us

ABC Coaching Institute offers professional training in programming, web development, and competitive exams.

# ABC Coaching Institute

[Home](#) | [Courses](#) | [Contact](#)

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## Our Courses

- HTML & CSS
- JavaScript
- Python Programming
- Data Structures

[Home](#) | [Contact](#)

## Contact Us

Email: [support@example.com](mailto:support@example.com)

Phone: +91 9876543210

### Explanation :-

- This project creates three HTML pages: Home, Courses, and Contact.
- The <nav> element is used to build a navigation menu on every page.
- The <a> tag connects pages using relative paths so users can move between them.
- One internal anchor link (#section) helps jump to a specific part of a page, and one external link opens a social media page.

- The website uses only HTML5 and keeps the code simple, readable, and well-indented.

### Problem 3

3. **Problem Statement** - Create a student registration form using HTML5 that includes input types (text, email, tel, number, date), uses built-in validation (required, min, max, pattern), proper <label> tags, and a submit button without using JavaScript.

**Code :-**

**Registration Form Code :-**

```
<!DOCTYPE html>
<html>
<head>
    <title>Student Registration Form</title>
</head>
<body>

    <h2>Student Registration Form</h2>

    <form>

        <!-- Name -->
        <label for="name">Name:</label><br>
        <input type="text" id="name" name="name" placeholder="Enter your name"
required><br><br>

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

        <!-- Phone -->
        <label for="phone">Phone Number:</label><br>
        <input type="tel" id="phone" name="phone"
placeholder="10 digit number"
pattern="[0-9]{10}"
required><br><br>
```



```

        <!-- Age -->
        <label for="age">Age:</label><br>
        <input type="number" id="age" name="age"
              min="18" max="60"
              required><br><br>

        <!-- Date of Birth -->
        <label for="dob">Date of Birth:</label><br>
        <input type="date" id="dob" name="dob" required><br><br>

        <!-- Submit Button -->
        <input type="submit" value="Register">

    </form>

</body>
</html>

```

Output :-

## Student Registration Form

Name:

Email:

Phone Number:

Age:

Date of Birth:



Explanation :-

- This form collects student details like Name, Email, Phone Number, Age, and Date of Birth.
- Different HTML5 input types such as text, email, tel, number, and date are used.
- The required attribute ensures that users must fill all fields before submitting.
- The min, max, and pattern attributes restrict invalid values like incorrect age or phone number format.
- The browser automatically shows validation errors without using JavaScript.

## Problem 4

4. **Problem Statement** - Create a multi-page website (Home, Courses, Web Development, HTML Course) using HTML5 with a semantic <nav> menu and breadcrumb navigation (Home > Courses > Web Development > HTML) using relative paths and hierarchical linking.

**Code :-**

**Training portal :-**

```
<!DOCTYPE html>
<html>
<head>
  <title>Home</title>
</head>
<body>

<nav>
  <a href="training portal.html">Home</a> |
  <a href="courses.html">Courses</a>
</nav>

<h2>Home</h2>

<p>Welcome to Training Portal</p>

</body>
</html>
```

**Courses code:-**

```
<!DOCTYPE html>
```

```

<html>
<head>
  <title>Courses</title>
</head>
<body>

<nav>
  <a href="training portal.html">Home</a> |
  <a href="courses.html">Courses</a>
</nav>

<p>
  <a href="training portal.html">Home</a> >
  Courses
</p>

<h2>Courses</h2>

<a href="web-development.html">Web Development</a>

</body>
</html>

```

### Web development course code:-

```

<!DOCTYPE html>
<html>
<head>
  <title>Web Development</title>
</head>
<body>

<nav>
  <a href="training portal.html">Home</a> |
  <a href="courses.html">Courses</a>
</nav>

<p>
  <a href="training portal.html">Home</a> >
  <a href="courses.html">Courses</a> >
  Web Development
</p>

```

```
<h2>Web Development</h2>

<a href="html-course.html">HTML Course</a>

</body>
</html>
```

### Html course code:-

```
<!DOCTYPE html>
<html>
<head>
  <title>HTML Course</title>
</head>
<body>

<nav>
  <a href="training portal.html">Home</a> |
  <a href="courses.html">Courses</a>
</nav>

<p>
  <a href="training portal.html">Home</a> >
  <a href="courses.html">Courses</a> >
  <a href="web-development.html">Web Development</a> >
  HTML Course
</p>

<h2>HTML Course</h2>

<p>Welcome to HTML Course Page</p>

</body>
</html>
```

### Output :-

[Home](#) | [Courses](#)

## Home

Welcome to Training Portal

[Home](#) | [Courses](#)

[Home](#) > [Courses](#)

## Courses

[Web Development](#)

[Home](#) | [Courses](#)

[Home](#) > [Courses](#) > [Web Development](#)

## Web Development

[HTML Course](#)

[Home](#) | [Courses](#)

[Home](#) > [Courses](#) > [Web Development](#) > [HTML Course](#)

## HTML Course

Welcome to HTML Course Page

### Explanation :-

- This project creates four connected HTML pages with different levels in a website structure.
- The <nav> element is used to build the main navigation menu on every page.
- Breadcrumb navigation shows the current page location using anchor (<a>) tags.
- Relative paths are used to link pages based on their hierarchy.

- Breadcrumb changes on each page to help users understand where they are in the website

## Problem 5

5. **Problem Statement** - Create a Course Enrollment Form using HTML5 that includes `<datalist>` for course suggestions, `<progress>` to show enrollment completion, `<meter>` to display skill level (Beginner–Advanced), modern input types (email, range, number), and built-in validation without using JavaScript or CSS.

Code :-

### Course Enrollment Form :-

```
<!DOCTYPE html>
<html>
<head>
  <title>Course Enrollment Form</title>
</head>
<body>

<header>
  <h2>Course Enrollment Form</h2>
</header>

<main>
  <form>

    <!-- Name -->
    <label for="name">Full Name:</label><br>
    <input type="text" id="name" required><br><br>

    <!-- Email -->
    <label for="email">Email:</label><br>
    <input type="email" id="email" required><br><br>

    <!-- Course -->
    <label for="course">Select Course:</label><br>
    <input list="courses" id="course" required>

    <datalist id="courses">
      <option value="HTML">
```

```

        <option value="CSS">
        <option value="JavaScript">
        <option value="Python">
    </datalist>
    <br><br>

    <!-- Skill Range -->
    <label for="skill">Skill Level:</label><br>
    <input type="range" id="skill" min="1" max="3" value="1">
    <span id="levelText">Beginner</span>
    <br><br>

    <!-- Meter -->
    <label>Skill Meter:</label><br>
    <meter id="skillMeter" min="1" max="3" value="1"></meter>
    <br><br>

    <!-- Progress -->
    <label>Progress:</label><br>
    <progress id="skillProgress" max="3" value="1"></progress>
    <br><br>

    <input type="submit" value="Enroll">

</form>
</main>

<script>
    const skill = document.getElementById("skill");
    const meter = document.getElementById("skillMeter");
    const progress = document.getElementById("skillProgress");
    const levelText = document.getElementById("levelText");

    skill.addEventListener("input", function () {
        meter.value = skill.value;
        progress.value = skill.value;

        if (skill.value == 1) {
            levelText.textContent = "Beginner";
        } else if (skill.value == 2) {
            levelText.textContent = "Intermediate";
        } else {
            levelText.textContent = "Advanced";
        }
    });

```

```
    }  
    });  
</script>  
  
</body>  
</html>
```

### Explanation :-

- The form collects user details like name, email, age, and selected course using modern HTML5 input types.
- The `<datalist>` element provides dropdown suggestions for course selection.
- The `<meter>` element visually shows skill levels such as Beginner, Intermediate, and Advanced.
- The `<progress>` element displays enrollment completion percentage as a progress bar.
- Built-in validation like `required`, `min`, and `max` ensures correct input without JavaScript.