HTML5 - Day - 2 Hands On - Sana Naveen

Problem 1

Problem Statement :
1.   Create two HTML pages and link them using navigation links
2.   Add a navigation bar with Home and Contact links
3.   Create a registration form with:
*   Name
*   Email
*   Password
*   Gender (radio buttons)
*   Course selection (dropdown)

Code :
File 1:
Home.html

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

  <nav>
    <a href="home.html">Home</a> |
    <a href="contact.html">Contact</a>
  </nav>

  <hr>

  <h1>Welcome</h1>
  <p>This is the home page.</p>

  <h1>Registration Form</h1>

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

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

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

      <label>Select Course:</label><br>
      <input type="text" name="course" list="courses" placeholder="Choose or type course"
required>

      <datalist id="courses">
         <option value="Java">
         <option value="Python">
         <option value="Web Development">
         <option value="Data Science">
      </datalist>

      <br><br>

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

   </form>

</body>
</html>
```

File 2:
```html
Contact.html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Contact / Registration</title>
</head>
<body>

   <nav>
      <a href="home.html">Home</a> |
      <a href="contact.html">Contact</a>
   </nav>

   <hr>
   <p>Naveen</p>
   <p>9876543210</p>
   <p>abc@email.com</p>

</body>
</html>
```

Code Screenshots :

```html
Sample > Feb_17 > Feb_17 An > <> home.html > ...
1    <!--Naveen-->
2    <!DOCTYPE html>
3    <html lang="en">
4    <head>
5        <meta charset="UTF-8">
6        <title>Home Page</title>
7    </head>
8    <body>
9
10       <nav>
11           <a href="home.html">Home</a> |
12           <a href="contact.html">Contact</a>
13       </nav>
14
15       <hr>
16
17       <h1>Welcome</h1>
18       <p>This is the home page.</p>
19
20       <h1>Registration Form</h1>
21
22       <form>
23           <label>Name:</label><br>
24           <input type="text" name="name" placeholder="Enter your name" required>
25           <br><br>
26
27           <label>Email:</label><br>
28           <input type="email" name="email" placeholder="Enter your email" required>
29           <br><br>
30
31           <label>Password:</label><br>
32           <input type="password" name="password" placeholder="Enter password" required>
33           <br><br>
34
35           <label>Gender:</label><br>
36           <input type="radio" name="gender" value="Male" required> Male
37           <input type="radio" name="gender" value="Female"> Female
38           <br><br>
39
40           <label>Select Course:</label><br>
41           <input type="text" name="course" list="courses" placeholder="Choose or type course" required>
42
43           <datalist id="courses">
44               <option value="Java">
45               <option value="Python">
46               <option value="Web Development">
47               <option value="Data Science">
48           </datalist>
49
50           <br><br>
51
52           <input type="submit" value="Register">
53
54       </form>
55
56   </body>
57   </html>
58
```

```
Sample > Feb_17 > Feb_17 An > <> contact.html > </> html >
    1   <!--Naveen-->
    2   <!DOCTYPE html>
    3   <html lang="en">
    4   <head>
    5       <meta charset="UTF-8">
    6       <title>Contact / Registration</title>
    7   </head>
    8   <body>
    9
   10       <nav>
   11           <a href="home.html">Home</a> |
   12           <a href="contact.html">Contact</a>
   13       </nav>
   14
   15       <hr>
   16       <p>Naveen</p>
   17       <p>9876543210</p>
   18       <p>abc@email.com</p>
   19
   20   </body>
   21   </html>
   22
```

Output Screenshots :

Home | Contact

Welcome

This is the home page.

Registration Form

Name:
Ram

Email:
abc@gmail.com

Password:
•••

Gender:
● Male ○ Female

Select Course:
Java ▼

Register

Home | Contact

Naveen

9876543210

abc@email.com

Explanation :

This project consists of two HTML5 pages connected using navigation links. Both pages use the standard HTML structure with <!DOCTYPE html>, <html>, <head>, and <body>. The <nav> element contains anchor (<a>) tags that link home.html and contact.html using relative paths, allowing users to switch between pages.

The Home page includes a registration form built with <form> and various input elements such as text, email, password, and radio buttons. The required and placeholder attributes are used for basic validation and user guidance. A <datalist> element provides suggested course options while still allowing custom input.

The Contact page displays simple contact information and maintains consistent navigation. Overall, this demonstrates a basic multi-page website with working links and form elements using only HTML.

Problem 2

Problem Statement :
A small coaching institute wants a basic static website with multiple pages so students can easily navigate between sections like Home, Courses, and Contact.
- Create 3 HTML pages:
- index.html (Home)
- courses.html
- contact.html
- Use:
- <nav> element to create a navigation menu
- <a> anchor tags for navigation
- Navigation menu should appear on all pages
- Use relative paths to link pages
- Include at least:
- One internal anchor link (#section)
- One external link (e.g., institute's social media)

Code :
File 1: Home

```
!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Prep Coaching Institute - Home</title>
</head>
<body>


    <nav>
      <a href="ins_home.html">Home</a> |
      <a href="courses.html">Courses</a> |
      <a href="ins_contact.html">Contact</a> |
      <a href="#about">About Section</a> |
      <a href="https://www.instagram.com" target="_blank">
        Our Instagram
      </a>
    </nav>

    <hr>

    <h1>Welcome to prep Coaching Institute</h1>
    <p>We offers high-standard training
      for various competitive examinations.</p>


    <h2 id="about">About Us</h2>
```

```
    <p>
        Prep Coaching Institute has Our skilled faculty
        members and well-designed learning programs ensure
        that students gain the knowledge and confidence
        eeded to achieve success in their exams.
    </p>

</body>
</html>
```

File 2: Contact
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Prep Coaching Institute - Contact</title>
</head>
<body>

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

    <hr>

    <h1>Contact Us</h1>

    <p>Email: prep@coaching.com</p>
    <p>Phone: +91 98765 43210</p>
    <p>Address: Silk Board, Bangalore</p>

</body>
</html>
```

File 3: Courses
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Prep Coaching Institute - Courses</title>
</head>
<body>

    <nav>
        <a href="ins_home.html">Home</a> |
        <a href="courses.html">Courses</a> |
        <a href="ins_contact.html">Contact</a>
```
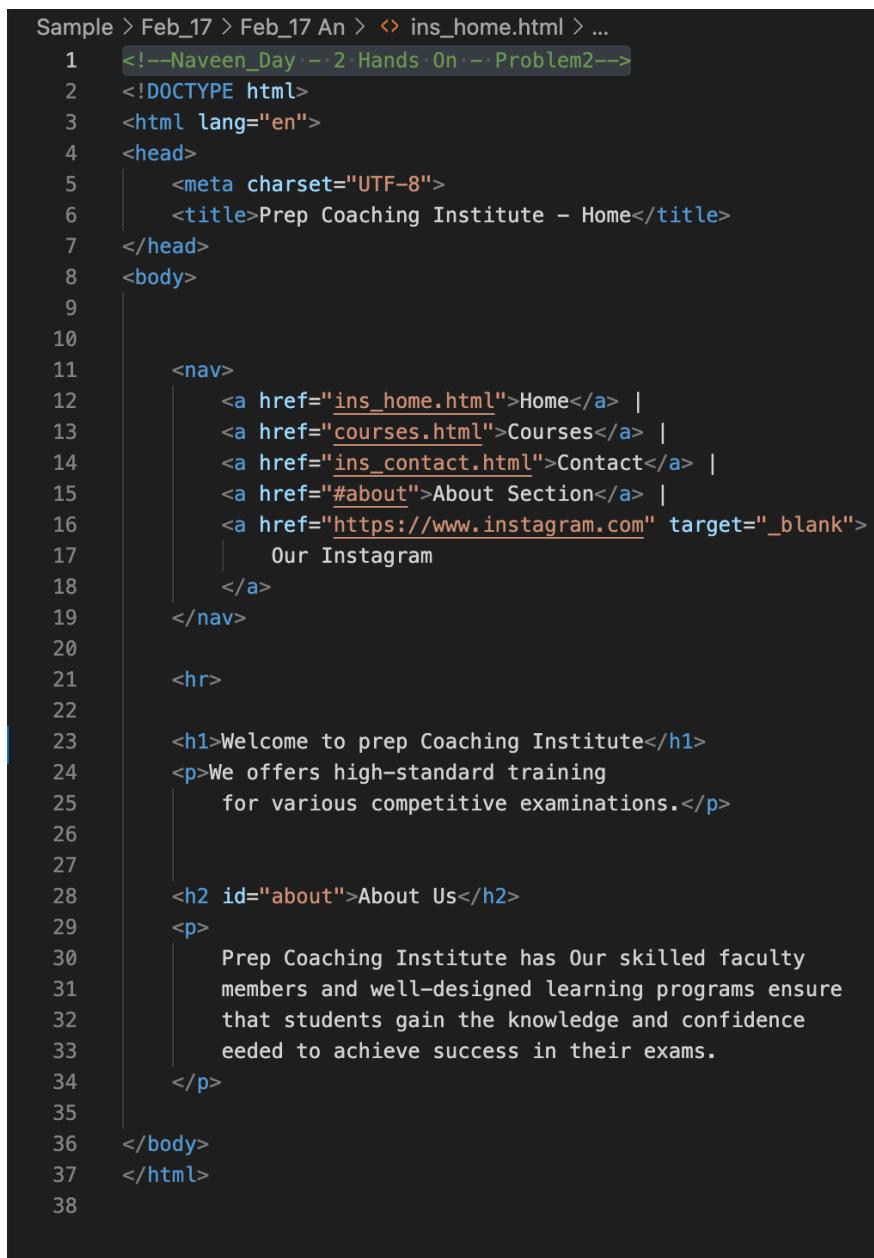
```html
        </nav>

        <hr>

        <h1>Our Courses</h1>

        <ul>
            <li>Java Programming</li>
            <li>Python Programming</li>
            <li>Web Development</li>
            <li>Data Science</li>
        </ul>

</body>
</html>
```

Code Screenshots :


```html
Sample > Feb_17 > Feb_17 An > <> ins_home.html > ...
1   <!--Naveen_Day - 2 Hands On - Problem2-->
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <title>Prep Coaching Institute - Home</title>
7   </head>
8   <body>
9
10
11      <nav>
12          <a href="ins_home.html">Home</a> |
13          <a href="courses.html">Courses</a> |
14          <a href="ins_contact.html">Contact</a> |
15          <a href="#about">About Section</a> |
16          <a href="https://www.instagram.com" target="_blank">
17              Our Instagram
18          </a>
19      </nav>
20
21      <hr>
22
23      <h1>Welcome to prep Coaching Institute</h1>
24      <p>We offers high-standard training
25          for various competitive examinations.</p>
26
27
28      <h2 id="about">About Us</h2>
29      <p>
30          Prep Coaching Institute has Our skilled faculty
31          members and well-designed learning programs ensure
32          that students gain the knowledge and confidence
33          eeded to achieve success in their exams.
34      </p>
35
36  </body>
37  </html>
38
```

```html
<!--Naveen_Day - 2 Hands On - Problem2-->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Prep Coaching Institute - Courses</title>
</head>
<body>

    <nav>
        <a href="ins_home.html">Home</a> |
        <a href="courses.html">Courses</a> |
        <a href="ins_contact.html">Contact</a>
    </nav>

    <hr>

    <h1>Our Courses</h1>

    <ul>
        <li>Java Programming</li>
        <li>Python Programming</li>
        <li>Web Development</li>
        <li>Data Science</li>
    </ul>

</body>
</html>
```

```html
<!--Naveen_Day - 2 Hands On - Problem2-->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Prep Coaching Institute - Contact</title>
</head>
<body>

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

    <hr>

    <h1>Contact Us</h1>

    <p>Email: prep@coaching.com</p>
    <p>Phone: +91 98765 43210</p>
    <p>Address: Silk Board, Bangalore</p>

</body>
</html>
```

Output Screenshots :

File /Users/naveenreddysana/Downloads/Sample%20sessio

Home | Courses | Contact | About Section | Our Instagram

Welcome to prep Coaching Institute

We offers high-standard training for various competitive examinations.

About Us

Prep Coaching Institute has Our skilled faculty members and well-designed learning exams.

Home | Courses | Contact

Our Courses

- Java Programming
- Python Programming
- Web Development
- Data Science

Home | Courses | Contact

Contact Us

Email: prep@coaching.com

Phone: +91 98765 43210

Address: Silk Board, Bangalore

Explanation :

This project consists of three interconnected HTML5 pages: Home, Courses, and Contact, forming a simple multi-page website. Each page follows the standard HTML structure with <!DOCTYPE html>, <html>, <head>, and <body> elements. The <nav> element is used to create a consistent navigation menu across all pages, and <a> anchor tags use relative paths to link between ins_home.html, courses.html, and ins_contact.html.

The Home page includes an internal anchor link (#about) that navigates to the About section within the same page, as well as an external link to Instagram using target="_blank" to open it in a new tab. The Courses page displays course offerings using an unordered list (<ul>), and the Contact page provides institute contact details. Overall, the website demonstrates structured content organisation, working navigation, internal and external linking, and clean multi-page HTML design without CSS or JavaScript.

Problem 3

Problem Statement :
An institute wants a basic student registration form with built-in validation to reduce incorrect submissions.
Create an HTML webpage that includes:
 Create a form with following input types:
- text (Name)
- email
- tel
- number (Age)
- date

Use HTML5 built-in validation:
- required
- min, max
- pattern (for phone number)

Add submit button

Code :
```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Student Registration Form</title>
</head>
<body>

  <h1>Student Registration Form</h1>

  <form>

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


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

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

```
            required>
        <br><br>

        <label for="age">Age:</label><br>
        <input type="number" id="age" name="age"
            min="6" max="60"
            required>
        <br><br>



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

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

    </form>

</body>
</html>
```

Code Screenshot :

```html
1    <!--Naveen_Day - 2 Hands On - Problem3-->
2    <!DOCTYPE html>
3    <html lang="en">
4    <head>
5        <meta charset="UTF-8">
6        <title>Student Registration Form</title>
7    </head>
8    <body>
9
10       <h1>Student Registration Form</h1>
11
12       <form>
13
14           <label for="name">Full Name:</label><br>
15           <input type="text" id="name" name="name"
16                   placeholder="Enter your full name"
17                   required>
18           <br><br>
19
20
21           <label for="email">Email Address:</label><br>
22           <input type="email" id="email" name="email"
23                   placeholder="Enter your email"
24                   required>
25           <br><br>
26
27           <label for="phone">Phone Number:</label><br>
28           <input type="tel" id="phone" name="phone"
29                   placeholder="10-digit mobile number"
30                   pattern="[0-9]{10}"
31                   required>
32           <br><br>
33
34           <label for="age">Age:</label><br>
35           <input type="number" id="age" name="age"
36                   min="6" max="60"
37                   required>
38           <br><br>
39
40
41           <label for="dob">Date of Birth:</label><br>
42           <input type="date" id="dob" name="dob"
43                   required>
44           <br><br>
45
46           <input type="submit" value="Register">
47
48       </form>
49
50   </body>
51   </html>
```

Output Screenshot :

Student Registration Form

Full Name:

Enter your full name

Email Address:

Enter your email

Phone Number:

10-digit mobile number

Age:

Date of Birth:

dd/mm/yyyy

Register

Explanation :

This HTML code creates a student registration form using HTML5. It includes input types like text, email, tel, number, and date. Built-in validation is applied using required, min, max, and pattern attributes to restrict invalid data. The browser automatically checks the inputs before submission without using JavaScript.

Problem 4

Problem Statement :
A training portal website has multiple levels of pages and users often get confused about where they are. The company wants breadcrumbs for better navigation.
Pages:
- Home
- Courses
- Web Development
- HTML Course

Implement:
- <nav> for main menu
- Breadcrumb navigation using anchor tags
- Example:
- Home > Courses > Web Development > HTML

Use:
- Hierarchical linking
- Relative paths

Breadcrumb should update based on page hierarchy

Code :

File 1: Home

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Home - Training Portal</title>
</head>
<body>

   <nav>
     <a href="tr_home.html">Home</a> |
     <a href="courses/tr_course.html">Courses</a>
   </nav>

   <hr>

   <nav>
     Home
   </nav>

   <h1>Training Portal</h1>
   <p>Welcome to our professional training platform.</p>

</body>
</html>
```

File 2: Course

```
<!DOCTYPE html>
```

```html
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Courses - Training Portal</title>
</head>
<body>

  <nav>
    <a href="../tr_home.html">Home</a> |
    <a href="tr_course.html">Courses</a>
  </nav>

  <hr>

  <h1>Courses</h1>

  <ul>
    <li>
      <a href="web_development/tr_html.html">
        Web Development
      </a>
    </li>
  </ul>

</body>
</html>
```

File 3:Web page

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>HTML Course - Training Portal</title>
</head>
<body>

  <nav>
    <a href="../../tr_home.html">Home</a> >
    <a href="../tr_course.html">Courses</a> >
    Web Development >
    HTML
  </nav>
 <hr>
  <h1>HTML Course</h1>
  <p>This course covers the fundamentals of HTML5.</p>

</body>
</html>
```

Code Screenshots:

Sample > Feb_17 > <> tr_home.html > ⊘ html

```html
1   <!--Naveen_Day - 2 Hands On - Problem4-->
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <title>Home - Training Portal</title>
7   </head>
8   <body>
9
10      <nav>
11          <a href="tr_home.html">Home</a> |
12          <a href="courses/tr_course.html">Courses</a>
13      </nav>
14
15      <hr>
16
17      <nav>
18          Home
19      </nav>
20
21      <h1>Training Portal</h1>
22      <p>Welcome to our professional training platform.</p>
23
24  </body>
25  </html>
26
```

Sample > Feb_17 > courses > <> tr_course.html > ⊘ html > ⊘ body

```html
1   <!--Naveen_Day - 2 Hands On - Problem4-->
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <title>Courses - Training Portal</title>
7   </head>
8   <body>
9
10
11      <n    The nav element represents a section of a page that links to other pages or to parts
12            within the page: a section with navigation links.
13
14      </nav>    MDN Reference
15
16      <hr>
17
18      |
19      <h1>Courses</h1>
20
21      <ul>
22          <li>
23              <a href="web_development/tr_html.html">
24                  Web Development
25              </a>
26          </li>
27      </ul>
28
29  </body>
30  </html>
31
```

Sample > Feb_17 > courses > web_development > <> tr_html.html > ...

```html
1   <!--Naveen_Day - 2 Hands On - Problem4-->
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <title>HTML Course - Training Portal</title>
7   </head>
8   <body>
9
10
11      <nav>
12          <a href="../../tr_home.html">Home</a> >
13          <a href="../tr_course.html">Courses</a> >
14          Web Development >
15          HTML
16      </nav>
17     <hr>
18      <h1>HTML Course</h1>
19      <p>This course covers the fundamentals of HTML5.</p>
20
21  </body>
22  </html>
23
```

Output Screenshots:

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

HTML Course

This course covers the fundamentals of HTML5.

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

Home

Training Portal

Welcome to our professional training platform.

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

Courses

- [Web Development](#)

Explanation :

This project is a three-page hierarchical website built using HTML5 and relative paths. The Home page links to the Courses page, which is stored inside a courses folder, and the Courses page links to the HTML course page inside a subfolder (web_development). Navigation is implemented using the <nav> element and anchor (<a>) tags. Relative paths like ../ and ../../ are used to move between folder levels. The final page also displays breadcrumb-style navigation to show the page hierarchy (Home > Courses > Web Development > HTML).

Problem 5

Problem Statement :
An online learning platform wants to enhance user experience by showing course progress, skill levels, and suggested inputs while filling the form.

Create an enrollment form using:

* <datalist> for course suggestions

* <progress> to show enrollment completion

* <meter> to indicate skill level (Beginner–Advanced)

Include modern input types:

* email

* range

* number

Use built-in validation

Code :
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Course Enrollment Form</title>
</head>
<body>

  <header>
    <h1>Virtual Learning Platform</h1>
    <p>Course Enrollment Form</p>
  </header>

  <main>

   <section>
     <h2>Enroll in a Course</h2>

     <form>

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

       <label for="email">Email Address:</label><br>
```

```html
        <input type="email" id="email" name="email"
            placeholder="Enter your email"
            required>
    <br><br>

        <label for="course">Select Course:</label><br>
        <input type="text" id="course" name="course"
            list="courses"
            placeholder="Choose or type course"
            required>

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

        <label for="age">Age:</label><br>
        <input type="number" id="age" name="age"
            min="16" max="60"
            required>
        <br><br>

        <label for="skill">Select Skill Level (1-10):</label><br>
        <input type="range" id="skill" name="skill"
            min="1" max="10" value="5">
        <br><br>

        <label>Skill Level Indicator:</label><br>
        <meter min="0" max="10" value="5">
            5 out of 10
        </meter>
        <br><br>

        <label>Enrollment Completion:</label><br>
        <progress value="70" max="100"></progress>
        <br><br>


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

    </form>
  </section>

</main>
```

```
        <footer>
            <p>2026 Online Learning Platform</p>
        </footer>


</body>
</html>
```

Code Screenshots :

```html
Sample > Feb_17 > Feb_17 An > <> enrollment.html > ⊘ html > ⊘ body
  1  <!--Naveen_Day - 2 Hands On - Problem5-->
  2  <!DOCTYPE html>
  3  <html lang="en">
  4  <head>
  5      <meta charset="UTF-8">
  6      <title>Course Enrollment Form</title>
  7  </head>
  8  <body>
  9
 10      <header>
 11          <h1>Virtual Learning Platform</h1>
 12          <p>Course Enrollment Form</p>
 13      </header>
 14
 15      <main>
 16
 17          <section>
 18              <h2>Enroll in a Course</h2>
 19
 20              <form>
 21
 22                  <label for="name">Full Name:</label><br>
 23                  <input type="text" id="name" name="name"
 24                          placeholder="Enter your full name"
 25                          required>
 26                  <br><br>
 27
 28                  <label for="email">Email Address:</label><br>
 29                  <input type="email" id="email" name="email"
 30                          placeholder="Enter your email"
 31                          required>
 32                  <br><br>
 33
 34                  <label for="course">Select Course:</label><br>
 35                  <input type="text" id="course" name="course"
 36                          list="courses"
 37                          placeholder="Choose or type course"
 38                          required>
 39
 40                  <datalist id="courses">
 41                      <option value="HTML">
 42                      <option value="CSS">
 43                      <option value="JavaScript">
 44                      <option value="Python">
 45                      <option value="Data Science">
 46                  </datalist>
 47                  <br><br>
 48
 49                  <label for="age">Age:</label><br>
 50                  <input type="number" id="age" name="age"
 51                          min="16" max="60"
 52                          required>
 53                  <br><br>
 54
 55                  <label for="skill">Select Skill Level (1-10):</label><br>
 56                  <input type="range" id="skill" name="skill"
 57                          min="1" max="10" value="5">
 58                  <br><br>
 59
 60                  <label>Skill Level Indicator:</label><br>
 61                  <meter min="0" max="10" value="5">
 62                      5 out of 10
 63                  </meter>
 64                  <br><br>
 65
 66                  <label>Enrollment Completion:</label><br>
 67                  <progress value="70" max="100"></progress>
 68                  <br><br>
 69
 70                  <input type="submit" value="Enroll Now">
 71
 72              </form>
 73          </section>
 74
 75      </main>
 76
 77      <footer>
 78          <p>2026 Online Learning Platform</p>
 79      </footer>
 80
 81  </body>
 82  </html>
 83
```

Output Screenshot :

Virtual Learning Platform

Course Enrollment Form

Enroll in a Course

Full Name:

| Ram |

Email Address:

| abc@gmail.com |

Select Course:

| Python |

Age:

| 16 |

Select Skill Level (1-10):

Skill Level Indicator:

Enrollment Completion:

Enroll Now

2026 Online Learning Platform

Explanation :
This HTML document creates a course enrollment form using HTML5 semantic elements like <header>, <main>, <section>, and <footer>. The form includes modern input types such as email, number, and range, along with built-in validation using the required, min, and max attributes. A <datalist> provides course suggestions while still allowing custom input. The <meter> element visually represents the user's skill level, and the <progress> element shows enrollment completion status.