HTML_5<No-1>_Hands_on_Gunta Divya:

Assessment Goal: Validate understanding of links and form elements.
Hands-on Tasks:

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)
4. Use required and placeholder attributes

Expected Outcome:
A multi-page website with working navigation and a basic form.
CODE:-

```
<!DOCTYPE html>

<html>

        <head met charset="UTF-8">

        <title>Registration</title>

</head>

<body>

        <nav>

                <a href="home.html">Home</a>

                <a href="contact.html">Contact</a>

        </nav>

</body>

</html>
```

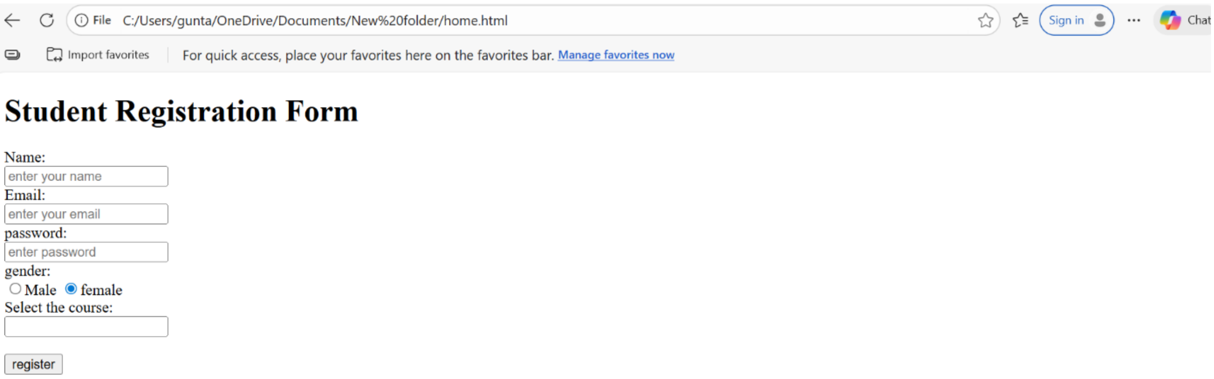
```
<!DOCTYPE html>

<html>

        <head meta charset="UTF-8">

        <title>Home</title>

</head>

<body>

        <h1>Student Registration Form</h1>
```

```
<form>
	<label>Name:</label><br>
	<input type="text" name="name" placeholder="enter your name" required>
	<br>
	<label>Email:</lable><br>
	<input type="email" name="email" placeholder="enter your email" required>
	<br>
	<label>password:</lable><br>
	<input type="password" name="password" placeholder="enter password" required>
	<br>
	<label>gender:</lable><br>
	<input type="radio" name="gender" value="male" required>Male
	<input type="radio" name="gender" value="female" checked>female
	<br>
	<label>Select the course:</label><br>
	<input list="course" name="course">
	<datalist id="course" placeholder="enter the course list">
	<option value="BTech">
	<option value="BCom">
	<option value="Degree">
	</datalist>
	<br>
	<br>
	<input type="submit" value="register">
	</form>


</body>
</html>
```

```
<!DOCTYPE html>
<html>
```

```
        <head met charset="UTF-8">
        <title>contacting</title>
</head>
<body>
        <h2>Contact details</h2>
        <p>
                email :abc@gmail.com
                <br>
                contact:+91123456789
        </p>
</body>
</html>
```

OUTPUT:-


File
C:/Users/gunta/OneDrive/Documents/New%20folder/home.html
Sign in
Chat
Import favorites
For quick access, place your favorites here on the favorites bar. Manage favorites now

Student Registration Form

Name:
enter your name
Email:
enter your email
password:
enter password
gender:
○ Male ● female
Select the course:

register

Code Explaination:-

This project consists of three HTML pages: Home, Registration, and Contact, which are linked using navigation links.
The navigation bar allows users to move between pages using anchor (<a>) tags.
The registration page contains a form with input fields for name, email, password, gender (radio buttons), and course selection (dropdown).
The required attribute ensures that users must fill all fields before submitting the form.
The placeholder attribute provides hints inside the input fields to guide the user.

HTML_5_<No-2>_Hands_on_Gunta_Divya

Assessment Goal:-

A small coaching institute wants a basic static website with multiple pages so students can easily navigate between sections like Home, Courses, and Contact.

Requirements

- 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)

Technical Constraints

- Only HTML5
- No CSS or JavaScript
- Navigation must be semantic (<nav>)

Learning Outcome

You should be able to:

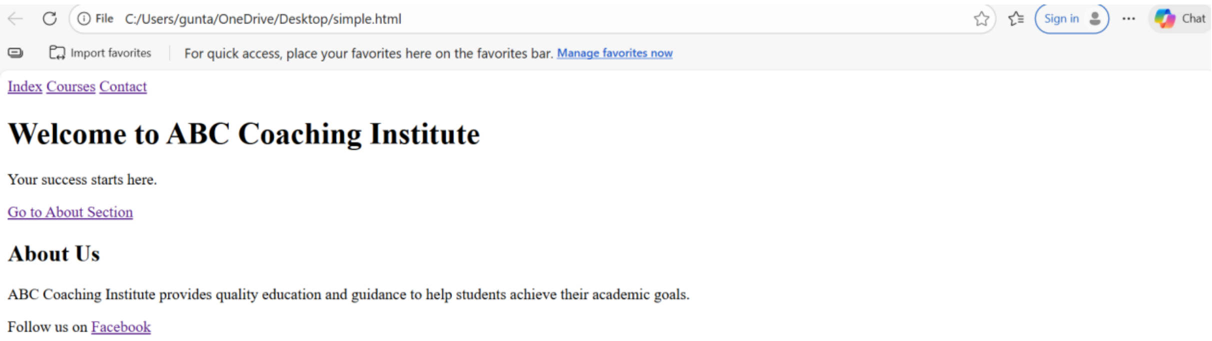
- Use <nav> and <a> elements
- Understand relative paths
- Build a simple multi-page navigation structure
- Users should move seamlessly between pages
- Code should be readable and well-indented
- Navigation links should work correctly

CODE:-

```
<!doctype html>
<html lang="en">
    <head char meta="UTF-8">
    <title>simple</title>
</head>
<body>
    <nav>
        <a href="index.html">Index</a>
        <a href="Menu items.html">Courses</a>
        <a href="Location.html">Contact</a>
    </nav>
    <h1>Welcome to ABC Coaching Institute</h1>
    <p>Your success starts here.</p>
     <a href="#about">Go to About Section</a>

     <h2 id="about">About Us</h2>
     <p>
     ABC Coaching Institute provides quality education and guidance
   to help students achieve their academic goals.
    </p>
     <p>
```

```
        Follow us on
        <a href="https://www.facebook.com" target="_blank">Facebook</a>
        </p>

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

OUTPUT:-


File C:/Users/gunta/OneDrive/Desktop/simple.html
Sign in
Chat
Import favorites
For quick access, place your favorites here on the favorites bar. Manage favorites now

Index Courses Contact

Welcome to ABC Coaching Institute

Your success starts here.

Go to About Section

About Us

ABC Coaching Institute provides quality education and guidance to help students achieve their academic goals.

Follow us on Facebook

Code Explaination:-

The <!doctype html> declaration defines the document as an HTML5 webpage.
The <nav> element is used to create a semantic navigation menu that appears on all pages.
<a> anchor tags with relative paths (index.html, courses.html, contact.html) allow navigation between pages.
An internal anchor link (#about) helps users jump to a specific section on the same page.
An external link (Facebook) connects users to the institute’s social media page.
All pages use only HTML5 elements with clean and readable structure, allowing smooth navigation.

HTML_5<No-3>_Hands_on_Gunta Divya:

Assessment Goal:-
An institute wants a basic student registration form with built-in validation to reduce incorrect submissions.
Requirements
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

Technical Constraints

- HTML5 only
- No JavaScript validation
- Use proper <label> tags

Learning Outcome

You will be able to:

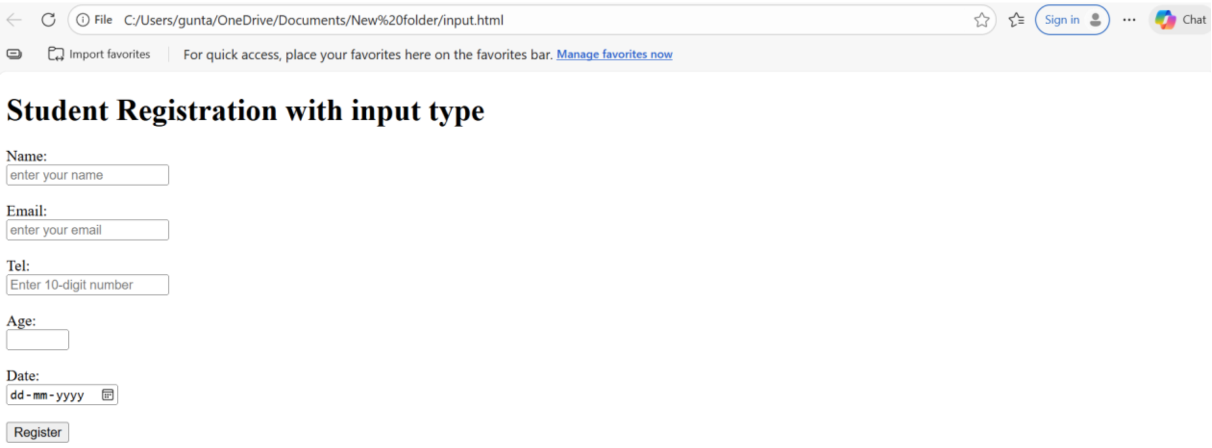
- Use advanced input types
- Apply built-in HTML5 validation
- Improve form usability without JavaScript
- Browser should show validation errors automatically
- Inputs should restrict invalid values
- Form should be user-friendly

CODE:-

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

<h1>Student Registration with input type</h1>

<form>
   <label>Name:</label><br>
   <input type="text" name="name" placeholder="enter your name" minlength="3"
maxlength="5" required>
   <br><br>

   <label>Email:</label><br>
   <input type="email" name="email" placeholder="enter your email" required>
   <br><br>

   <label>Tel:</label><br>
   <input type="tel" pattern="[0-9]{10}" placeholder="Enter 10-digit number" required>
   <br><br>

   <label>Age:</label><br>
   <input type="number" min="18" max="60" required>
   <br><br>

   <label>Date:</label><br>
   <input type="date" required>
   <br><br>

   <input type="submit" value="Register">
</form>
```

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

OUTPUT:-



File C:/Users/gunta/OneDrive/Documents/New%20folder/input.html
Sign in
Chat
Import favorites
For quick access, place your favorites here on the favorites bar. Manage favorites now

Student Registration with input type

Name:
enter your name

Email:
enter your email

Tel:
Enter 10-digit number

Age:

Date:
dd-mm-yyyy

Register

Code Explaination:-

This HTML code creates a student registration form using HTML5 input types.
The form collects user details such as name, email, phone number, age, and date.
Built-in validation attributes like required, min, max, and pattern are used to restrict invalid inputs.
The browser automatically displays error messages if incorrect data is entered**.**

HTML_5<No-5>_Hands_on_Gunta Divya:

Problem 5: Course Enrollment Form with Advanced HTML Elements

Scenario

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

Requirements

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

Technical Constraints

- HTML5 only
- No JavaScript or CSS
- Must use semantic elements

Learning Outcome

You will be able to:

- Use advanced HTML5 elements
- Enhance form UX without JavaScript
- Understand real-time data representation in HTML

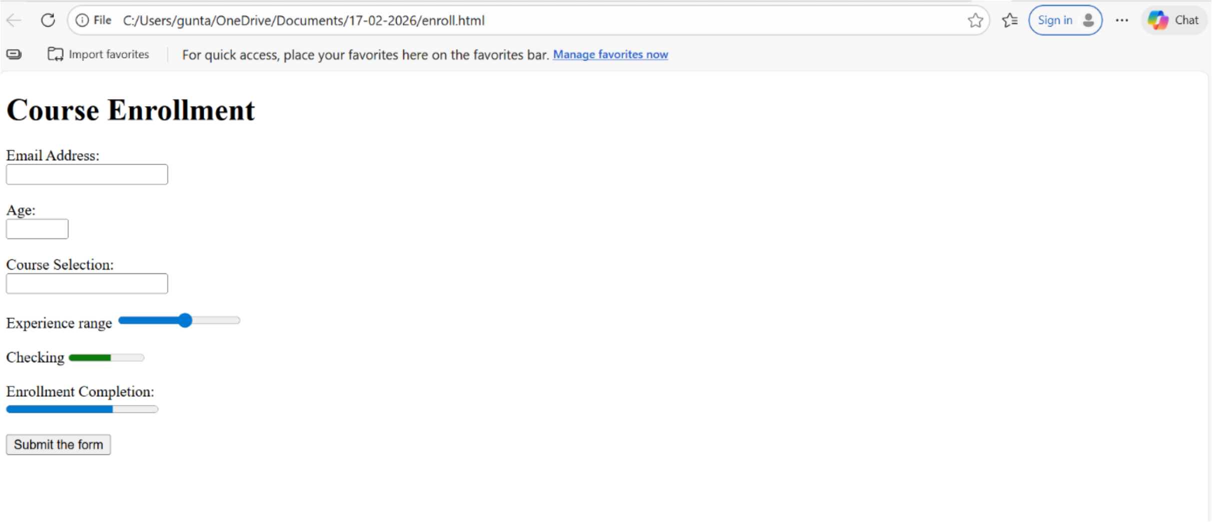
Browser should display:

- Dropdown suggestions via <datalist>
- Progress bar updates (static value)
- Meter shows skill level visually

Clean and structured form layout.

CODE:-

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

<header>
  <h1>Course Enrollment</h1>
</header>
<form>


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

      <label for="age">Age:</label><br>
      <input type="number" id="age" name="age" min="18" max="65" required><br><br>

      <label for="course">Course Selection:</label><br>
      <input list="courses" id="course" name="course" required>
      <datalist id="courses">
        <option value="HTML">
        <option value="CSS">
        <option value="JavaScript">
        <option value="Python">
        <option value="Web Development">
      </datalist><br><br>


      <label for="Experience">Experience range</label>
      <input type="range" id="Experience" name="skill" min="1" max="10"><br><br>
             <label for="rangeprogress">Checking</label>
      <meter min="1" max="10" value="6">
        Skill Level
      </meter><br><br>


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

    <button type="submit">Submit the form</button>

  </form>
</body>
</html>
```


File C:/Users/gunta/OneDrive/Documents/17-02-2026/enroll.html
Sign in
Chat
Import favorites
For quick access, place your favorites here on the favorites bar. Manage favorites now

Course Enrollment

Email Address:

Age:

Course Selection:

Experience range

Checking

Enrollment Completion:

Code Explaination:-

The code creates a course enrollment form using only HTML5 semantic elements. The <form> tag is used to collect user details, while <fieldset> and <legend> help organize the form into meaningful sections. The email and number input types provide built-in validation for correct email format and age range. A <datalist> element is used to display course suggestions as a dropdown while the user types. The skill level is represented using a range input along with a <meter> element for visual indication. The <progress> element shows the enrollment completion status as a static progress bar. This form improves user experience without using any CSS or JavaScript.