HTML Complete Revision Project Exercise

Exercise Title: Create a Complete Student Web Page Project

Objective: Students will create a mini website project using all concepts learned so far:

- HTML Boilerplate + basic tags (headings, paragraphs)
- Lists (ordered, unordered, nested, description list)
- Tables (thead, tbody, tfoot, rowspan, colspan)
- Links (absolute + relative)
- Forms (inputs + attributes + textarea + select)
- Div and Span tags
- CSS (inline + internal, selectors, class, id)

Step 1: Create Project Folder

1 Create a folder named: **HTML_Revision_Project**

Step 2: Create Required Files

1 Inside the folder, create the following files:

Code:
```
index.html
about.html
contact.html
```

Step 3: Work on index.html (Homepage)

1 Add complete HTML boilerplate.
2 Set the title as: **Student Website**
3 Add an h1 heading: **Welcome to My Website**
4 Add a paragraph introducing yourself.

Code:
```
<title>Student Website</title>

<h1>Welcome to My Website</h1>
<p>My name is _____. I am learning Web Development and this is my first complete
project.</p>
```

Step 4: Add Navigation Links (Anchor Tag)

1 Add a navigation section using div and anchor tags:

Code:

```
<div>
<a href="index.html">Home</a> |
<a href="about.html">About</a> |
<a href="contact.html">Contact</a> |
<a href="https://www.google.com" target="_blank">Google</a>
</div>
```

Step 5: Add Lists Section in index.html

1　Create an Unordered List (ul) for technologies.

2　Create an Ordered List (ol) for daily routine.

3　Create a Nested List for provinces and cities.

4　Create a Description List (dl) for definitions.

Code:

```
<h2>Technologies I Want to Learn</h2>
<ul>
<li>HTML</li>
<li>CSS</li>
<li>Bootstrap</li>
<li>JavaScript</li>
</ul>

<h2>My Daily Routine</h2>
<ol>
<li>Wake up</li>
<li>Attend class</li>
<li>Practice coding</li>
<li>Sleep</li>
</ol>

<h2>Pakistan Provinces & Cities</h2>
<ul>
<li>Punjab
<ol>
<li>Lahore</li>
<li>Multan</li>
</ol>
</li>

<li>Sindh
<ol>
<li>Karachi</li>
<li>Hyderabad</li>
</ol>
</li>
</ul>

<h2>Definitions</h2>
<dl>
<dt>HTML</dt>
<dd>HTML is used to create website structure.</dd>

<dt>CSS</dt>
<dd>CSS is used for styling web pages.</dd>
</dl>
```

Step 6: Add Table in index.html

1   Create a Student Marks Table using thead, tbody, and tfoot (add at least 4 students):

Code:

```
<h2>Student Marks Table</h2>

<table border="1">
<thead>
<tr>
<th colspan="3">Student Data</th>
</tr>
<tr>
<th>Name</th>
<th>Age</th>
<th>Marks</th>
</tr>
</thead>

<tbody>
<tr>
<td>Ahmed</td>
<td>20</td>
<td>98</td>
</tr>
<tr>
<td>Faizan</td>
<td>22</td>
<td>76</td>
</tr>
</tbody>

<tfoot>
<tr>
<td colspan="2">Total Marks</td>
<td>174</td>
</tr>
</tfoot>
</table>
```

Step 7: Work on about.html

1   Add boilerplate code.
2   Set title as: About Me
3   Add heading and paragraph about yourself.
4   Add a hobbies list.
5   Add a link back to Home page.

Code:

```
<title>About Me</title>

<h1>About Me</h1>
<p>This page contains information about me.</p>

<h2>My Hobbies</h2>
<ul>
<li>Reading</li>
<li>Cricket</li>
```

```
<li>Coding</li>
</ul>

<a href="index.html">Go Back to Home</a>
```

Step 8: Work on contact.html (Forms Practice)

1 Create a complete form with: name, email, password, gender, subjects, city dropdown, textarea, submit button.

2 Use required, minlength, maxlength and placeholder attributes.

Code:
```
<h1>Contact Form</h1>

<form>
<label>
Name:
<input type="text" required minlength="5" maxlength="20" placeholder="Enter your name">
</label>
<br><br>

<label>
Email:
<input type="email" placeholder="Enter your email">
</label>
<br><br>

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

<p>Gender</p>
<label>
Male:
<input type="radio" name="gender">
</label>

<label>
Female:
<input type="radio" name="gender">
</label>

<br><br>

<p>Subjects</p>
<label>
HTML
<input type="checkbox">
</label>

<label>
CSS
<input type="checkbox">
</label>

<label>
JavaScript
<input type="checkbox">
```

```
</label>

<br><br>

<label>
Select City:
<select>
<option hidden>Select City</option>
<option>Lahore</option>
<option>Multan</option>
<option>Karachi</option>
</select>
</label>

<br><br>

<label>
Your Message:
<textarea rows="4" cols="30"></textarea>
</label>

<br><br>

<button type="submit">Send</button>
</form>
```

Step 9: Add Internal CSS in index.html (Styling Practice)

1   Inside the head tag, add the following internal CSS:

Code:
```
<style>
h1{
color: green;
text-align: center;
font-size: 45px;
}

.sub-heading{
color: blue;
text-decoration: underline;
}

#main-para{
color: gray;
font-size: 18px;
}

.box{
border: 2px solid black;
padding: 10px;
margin: 10px;
}
</style>
```

Step 10: Apply CSS using class and id

1   Apply class, id, and div grouping like this:

Code:

```
<h2 class="sub-heading">Technologies I Want to Learn</h2>

<p id="main-para">This website is created as a revision project.</p>

<div class="box">
<h2 class="sub-heading">My Skills</h2>
<ul>
<li>Communication</li>
<li>Teamwork</li>
<li>HTML Basics</li>
</ul>
</div>
```

Step 11: Span Tag Task (Inline Highlight)

1 Add span tag with inline CSS to highlight text:

Code:

```
<p>I am learning <span style="color: red;">Web Development</span> at Corvit.</p>
```

Bonus Task (Extra Challenge)

1 Create a table named Course Schedule with Days, Topics, and Timing.

Final Checklist for Students

- 3 HTML files created successfully (index.html, about.html, contact.html)
- Proper boilerplate used in all files
- Navigation links working properly
- Lists included (ul, ol, nested list, description list)
- Table created with thead, tbody, and tfoot
- Form created with required, minlength, maxlength, placeholder attributes
- Internal CSS used in index.html
- Class selector and ID selector applied
- Div and span tags used properly