Name:-saurabh Raj

Batch Email Id:saurabhraj25aug2004@gmail.com
Batch Name:April Full stack Development
Mobile Number:8434283953
Module :18 practice Set
Github link of all code:

—-----------------------PRACTICE SET:02—-----------------------------------

Question:01

1. Build a simple webpage that displays text as shown in the below image.

This text will be bolded.

This text will be italic.

This text will be underlined

<mark>This text will be highlighted</mark>

This is normal text This will be super scripted This is normal again

This is normal text This text will be subscripted

Normal Text Smal Text

~~This text will be deleted~~
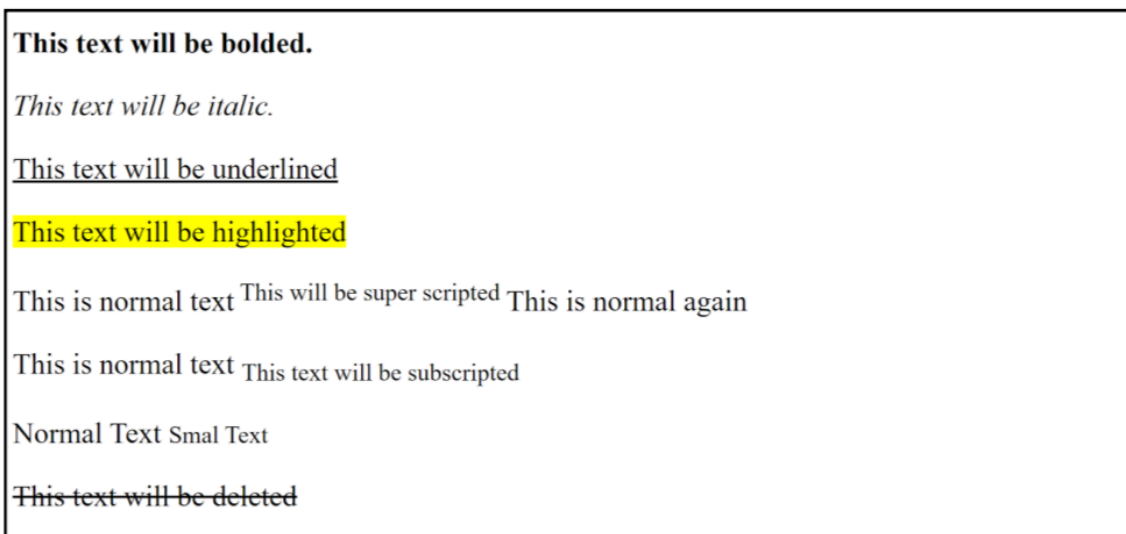
Answer:

```
1    <!DOCTYPE html>
2    <html>
3    <body>
4
5      <h1>This text will be bolded</h1>
6      <p><i>This text will be italic</i></p>
7      <p><u>This text will be underlined</u></p>
8      <p><mark>This text will be highlighted</mark></p>
9      <p>This is normal text<sup> This will be superscripted</sup> This is normal text again</p>
10     <p>This is normal text<sub> This text will be subscripted</sub></p>
11     <p>Normal Text <small>Small Text</small></p>
12     <p><del>This text will be deleted</del></p>
13
14   </body>
15   </html>
16
```

Output:

127.0.0.1:5500/p1.html

This text will be bolded

This text will be italic

This text will be underlined

This text will be highlighted

This is normal text $^{This\ will\ be\ superscripted}$ This is normal text again

This is normal text $_{This\ text\ will\ be\ subscripted}$

Normal Text Small Text

~~This text will be deleted~~

Question:2

2. Build a simple webpage that helps users navigate different web development-related websites. Note: On clicking the hyperlink the web pages should open in a new tab. Below is a reference image.
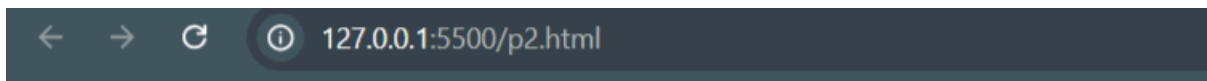
Navigate Me:

Take me to PW Skills to buy a course.

Take me to MDN docs to know more about Web Development.

Take me to PW Skills Lab to practice live coding.

Solution:

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4   <title>Web Dev Resources</title>
5   </head>
6   <body>
7     <h1>Navigate Me</h1>
8     <ul>
9
10      <span>Take me  to </span><a href="https://www.pwskills.com/" target="_blank">PW Skills </a>
11      <span> to buy a course.</span>
12      <br>
13
14      <span>Take me to</span> <a href="https://developer.mozilla.org/en-US/docs/Web/Development" target="_blank">
15        MDN docs </a><span>to know more about Web Development.</span>
16      <br>
17      <span>Take me to </span><a href="https://www.pwskills.com/practice/" target="_blank">PW Skills Lab </a>
18      <span>to practice live coding.</span>
19    </ul>
20  </body>
21  </html>
22
```

Output;

127.0.0.1:5500/p2.html

Navigate Me

Take me to PW Skills to buy a course.
Take me to MDN docs to know more about Web Development.
Take me to PW Skills Lab to practice live coding.

Question :3

3. Build a simple blog web page with 3 pages home, web development, and web design. Each page must contain hyperlinks to other pages in the top, a heading of the page topic and a paragraph of information. For the home page you can add some information about yourself.

Answer:

EXPLORER ··· | Welcome | p1.html | p2.html | p3.1.html ✕ | p3.2.html | p3.3.html
PRACTICE_SET_2
p1.html
p2.html
p3.1.html
p3.2.html
p3.3.html
p3.1.html > html > body

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Your Blog Name</title>
7   </head>
8   <body>
9       <header>
10          <nav>
11              <a href="p3.1.html">Home</a>
12              <a href="p3.2.html">Web Development</a>
13              <a href="p3.3.html">Web Design</a>
14          </nav>
15      </header>
16
17      <main>
18          <h1>Welcome to my blog!</h1>
19          <p>This is a simple blog website about web development and design.
20          I'm a passionate web developer who loves to learn and share new things.
21          Here, I'll be posting articles on various web development and design topics.
22          Feel free to browse around and learn something new!</p>
23      </main>
24  </body>
```

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Web Development</title>
7   </head>
8   <body>
9       <header>
10          <nav>
11              <a href="p3.1.html">Home</a>
12              <a href="p3.2.html">Web Development</a>
13              <a href="p3.3.html">Web Design</a>
14          </nav>
15      </header>
16
17      <main>
18          <h1>Web Development</h1>
19          <p>This is a page about web development.
20          Here, I'll be posting articles on various web development topics, like HTML, CSS,
21          JavaScript, and more.</p>
22      </main>
23  </body>
24  </html>
```

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Web Design</title>
7    </head>
8    <body>
9        <header>
10           <nav>
11               <a href="p3.1.html">Home</a>
12               <a href="p3.2.html">Web Development</a>
13               <a href="p3.3.html">Web Design</a>
14           </nav>
15       </header>
16
17       <main>
18           <h1>Web Design</h1>
19           <p>This is a page about web design.
20           Here, I'll be posting articles on various web design topics,
21           like user interface (UI) design, user experience (UX) design, and more.</p>
22       </main>
23   </body>
24   </html>
```

Output:

Home Web Development Web Design

Welcome to my blog!

Hello ,I am saurabh Raj.This is my simple blog website about web development and design. I'm a passionate web developer who loves to learn and share new things. Here, I'll be posting articles on various web development and design topics. Feel free to browse around and learn something new!

Home Web Development Web Design

Web Development

This is a page about web development. Here, I'll be posting articles on various web development topics, like HTML, CSS, JavaScript, and more.

127.0.0.1:5500/p3.3.html

Home Web Development Web Design

Web Design

This is a page about web design. Here, I'll be posting articles on various web design topics, like user interface (UI) design, user experience (UX) design, and more.

Question:4

4. Create an ordered list of HTML tags. Each list item must include the tag name and some information about the tag.

Answer:

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Document</title>
7   </head>
8   <body>
9       <div>
10          <h3> paragraph Tag:- </h3>
11          <p>This tag defines a paragraph of text.</p>
12      </div>
13      <hr>
14      <div>
15          <h3> Anchor Tag:-</h3>
16          <p>: This tag defines a hyperlink,
17      which allows you to link to other web pages or sections within the same page.</p>
18      </div>
19
20      <hr>
21      <div>
22          <h3> Image Tag</h3>
23          <p> This tag is used to embed images into the web page.</p>
24      </div>
```

```html
2   <html lang="en">
8   <body>
24      </div>
25
26      <hr>
27      <div>
28          <h3> Ordered Tag</h3>
29          <p> : This tag defines an ordered list, where the items are
30              displayed in a numbered sequence.</p>
31      </div>
32
33      <hr>
34      <div>
35          <h3> List Tag</h3>
36          <p> : This tag defines a list item within an ordered
37              list or an unordered list.</p>
38      </div>
39
40      <hr>
41      <div>
42          <h3> Bold Tag</h3>
43          <p> : These tags are used to make text bold.
44              While  is used for styling,  indicates importance.</p>
45      </div>
```

Output:

paragraph Tag:-

This tag defines a paragraph of text.

Anchor Tag:-

: This tag defines a hyperlink, which allows you to link to other web pages or sections within the same page.

Image Tag

This tag is used to embed images into the web page.

Ordered Tag

: This tag defines an ordered list, where the items are displayed in a numbered sequence.

List Tag

: This tag defines a list item within an ordered list or an unordered list.

Bold Tag

: These tags are used to make text bold. While is used for styling, indicates importance.

Question:5

5. Create a description list of full stack web development tech stack, using the <dl> tag. Each term should be a tech stack name and each description should be a brief explanation of what the tech stack is used for.

Answer:-

```
  <> p5.html > ⊗ html > ⊗ body > ⊗ dl > ⊗ dd
   1    <!DOCTYPE html>
   2    <html>
   3    <head>
   4    <title>Full Stack Web Development Tech Stacks</title>
   5    </head>
   6    <body>
   7    <h1>Full Stack Web Development Tech Stacks</h1>
   8    <hr>
   9    <dl>
   10     <dt><b>Frontend Development</b></dt>
   11     <dd>:-This refers to the client-side of a web application,
   12       the user interface (UI) that users interact with directly.
   13       Common technologies include HTML, CSS, and JavaScript.</dd>
   14     <dt><b>Backend Development</b></dt>
   15     <dd>:-This refers to the server-side of a web application,
   16       which handles data processing and logic. Common technologies include Python
   17       , Java, PHP, Ruby, and Node.js.</dd>
   18     <dt><b>Database Management</b></dt>
   19     <dd>:-This refers to storing and managing data used by web applications.
   20       Common database technologies include MySQL, PostgreSQL, Oracle, and MongoDB.</dd>
   21    </dl>
   22    </body>
   23    </html>
```

Output:-

Full Stack Web Development Tech Stacks

Frontend Development
   :-This refers to the client-side of a web application, the user interface (UI) that users interact with directly. Common technologies include HTML, CSS, and JavaScript.
Backend Development
   :-This refers to the server-side of a web application, which handles data processing and logic. Common technologies include Python , Java, PHP, Ruby, and Node.js.
Database Management
   :-This refers to storing and managing data used by web applications. Common database technologies include MySQL, PostgreSQL, Oracle, and MongoDB.

Question:-6

Create an ordered list of the full stack web development tech stack HTML, CSS, and JS. For each tech stack, create a table that lists the tech stack name, its primary use cases, and some key features or benefits. Below is a reference image.

Answer:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>About Tech stack HTMK, CSS, and JS.</title>
</head>
<body>
    <h1>HTML </h1>
    <table border="1">
        <thead>
            <tr>
```

```html
                <th>Primay Use Cases</th>
                <th>Key Feature/Benefit</th>


            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Building the structure and content of web
pages</td>
                <td>
                    <ul>
                        <li>Simple and easy to learn, making it a great
starting point for web development.</li>

                        <li>Compatible with all web browsers, ensuring
your web pages can be viewed universally.</li>
                        <li>Allows for semantic markup, which uses tags
to define the meaning and structure of content
                            , improving accessibility and search engine
optimization (SEO).</li>
                    </ul>
                </td>

            </tr>

    </table>

    <hr>
    <h1>CSS </h1>
    <table border="1">
        <thead>
            <tr>
                <th>Primay Use Cases</th>
                <th>Key Feature/Benefit</th>


            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Styling and layout of web pages.</td>
                <td>
                    <ul>
```

```html
                                <li>Enables separation of content and
presentation,
                                    allowing you to modify the look and feel of
your web pages
                                    without affecting the underlying content
(HTML).</li>

                                <li>Supports responsive design, ensuring your
web pages adapt and display
                                    well on different devices (desktop,
mobile, tablet).</li>
                                <li>Offers a wide range of styling options,
                                    including fonts, colors, backgrounds,
positioning, and animations,
                                    allowing you to create visually appealing
and user-friendly web pages.</li>
                        </ul>
                    </td>

            </tr>

    </table>
    <br>
    <h1>JAVASCRIPT </h1>
    <table border="1">
        <thead>
            <tr>
                <th>Primay Use Cases</th>
                <th>Key Feature/Benefit</th>

            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Adding interactivity and dynamic behavior to web
pages.</td>
                <td>
                    <ul>
                        <li>A high-level, interpreted programming
language that can be easily embedded within HTML.</li>

                        <li>Makes web pages more interactive by
allowing users to interact with
```

```
                                          elements on the page, such as buttons,
forms, and animations.</li>
                               <li>Can be used to create complex web
applications and single-page applications (SPAs).</li>
                        </ul>
                   </td>

              </tr>


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

Output:

Question:7

7. Build a complex nested list structure representing a multi-level table of contents. Use unordered (<ul>) and list items (<li>) with inline-block styling to create a structured layout. Apply formattin enhance the presentation of list items.

Answer:

```
<!DOCTYPE html>
```

```html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Table of Contents</h1>

    <ul>
        <li>
            <a href="#">part 1:Introduction</a>
        </li>
        <li>
            <a href="#">part 2:Getting started</a>
            <ul>
                <li>
                    <a href="#">2.1 Installing the software</a>
                </li>
                <li>
                    <a href="#">2.2 Creating a New Project</a>
                </li>
                <ul>
                    <li>
                        <a href="#">2.2.1 Project Templates</a>
                    </li>
                    <li>
                        <a href="#">2.2.2 Customizing Setting</a>
                    </li>
                </ul>
                <li>
                    <a href="#">2.3 Exploring the Interface</a>
                    <ul>
                        <li>
                            <a href="#"> 2.3.1 Toolbar Feature</a>
                        </li>

                        <li>
                            <a href="#"> 2.3.1 Panel Layout</a>
                        </li>
                        <ul>
                            <li>
```

```html
                        <a href="#">2.3.2.1 Docking Panel</a>
                    </li>
                    <li>
                        <a href="#">2.3.2.1 Tabbed
Interface</a>
                    </li>
                </ul>
            </ul>
        </li>
    </ul>
</li>


<li>
    <a href="#">part 3:Advance Topic</a>
    <ul>
        <li>
            <a href="#">3.1 Working with plugins</a>
        </li>

        <li>
            <a href="#">3.2 Customizing the UI</a>
        </li>

        <li>
            <a href="#">3.3 Optimizing the performance</a>
        </li>
    </ul>
</li>


<li>
    <a href="#">part 4:Conclusion</a>
</li>


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

Output:

Table of Contents

Question:8;

8. Create a table to display a conference schedule. Each row corresponds to a time slot, and each column corresponds to a room. Some time slots might have multiple sessions running simultaneously in different rooms. Utilize rowspan and colspan attributes as necessary to accommodate this complex schedule. (use table attribute "cellpadding" to give extra padding in each table cell).

Output should look like this:

Answer:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Conference Schedule</title>
    <style>
        table{
            width:600;

            height="300";
        }

        th, td {
            padding: 10px;
            border: 2px solid #1353dc;
            text-align: center;
        }
        th {
            background-color: #dde5ea;
            font-weight: italic;
        }
    </style>
</head>
<body>
    <h1>Conference Schedule</h1>
    <table  >
        <thead>
            <tr>
                <th>Time</th>
                <th>Room 1</th>
                <th>Room 2</th>
                <th>Room 3</th>
                <th>Room 4</th>
            </tr>
```

```
    </thead>

<tbody>
    <tr>
        <td rowspan="3">9:00 AM - 10:00 AM</td>
        <td rowspan="2">Keynote </td>
        <td>Sesssion A</td>
        <td>Sesssion B</td>
        <td rowspan="3">Sesssion C</td>


    </tr>
    <tr>



        <td>Sesssion D</td>
        <td>Sesssion E</td>


    </tr>
    <tr>
        <td>10:30 AM - 11:30 AM</td>
        <td colspan="2">Sesssion F</td>

    </tr>

    <tr>
        <td>12:00 PM -1:00 PM</td>
        <td colspan="4">Lunch Break</td>



    </tr>


    <tr>
        <td rowspan="2">1:00 PM -2:00 PM</td>
        <td>Sesssion G</td>
        <td rowspan="2">Sesssion H</td>
        <td>Sesssion I</td>
        <td>Sesssion J</td>
```

```
                </tr>

                <tr>

                    <td>Sesssion K</td>
                    <td>Sesssion L</td>
                    <td>Sesssion M</td>

                </tr>



        </tbody>


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

Output:

Conference Schedule

Time	Room 1	Room 2	Room 3	Room 4
9:00 AM - 10:00 AM	Keynote	Sesssion A	Sesssion B	Sesssion C
		Sesssion D	Sesssion E	
	10:30 AM - 11:30 AM	Sesssion F		
12:00 PM -1:00 PM	Lunch Break			
1:00 PM -2:00 PM	Sesssion G	Sesssion H	Sesssion I	Sesssion J
	Sesssion K		Sesssion L	Sesssion M