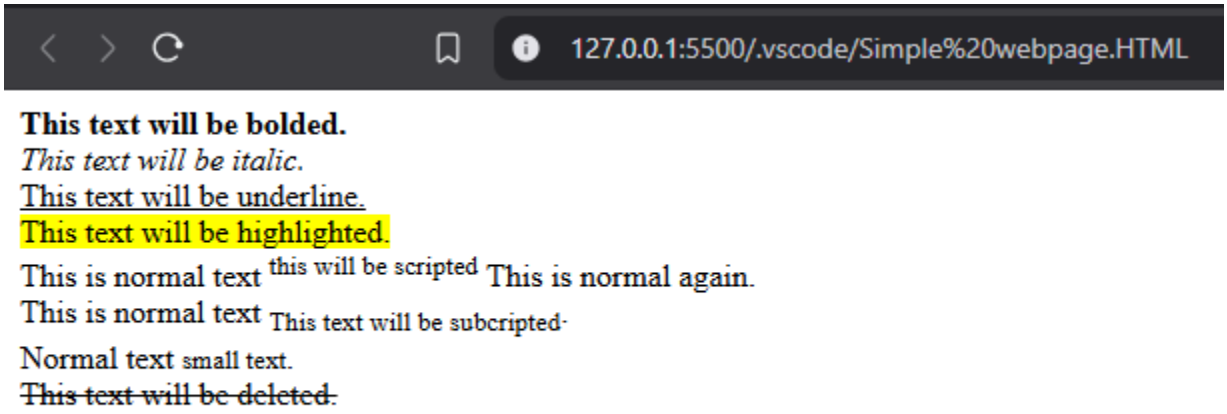
Name = Om Kumar
Email ID = omk5938@gmail.com
Assignment Name =Core Html
GitHub = Link

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

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Web Page</title>
</head>
<body>
    <Div>
        <b>This text will be bolded.</b><br>

        <i>This text will be italic.</i><br>

        <u>This text will be underline.</u><br>

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

        This is normal text <sup>this will be scripted</sup> This is normal
again. <br>

        This is normal text <sub>This text will be subcripted</sub>.<br>

        Normal text <small>small text</small>.<br>

        <del>This text will be deleted.</del>
    </Div>


</body>
</html>
```

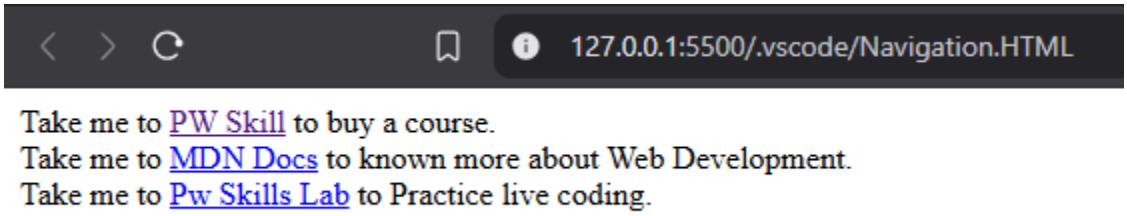
Output:-



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.

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Web Page</title>
</head>
<body>
    <Div>Take me to <a href="https://pwskills.com/">PW Skill</a> to buy a course.
<br>

        Take me to <a href="https://Mdndocs.com/">MDN Docs</a> to known more
about Web Development. <br>

        Take me to <a href="https://pwskillslab.com/">Pw Skills Lab</a> to
Practice live coding. <br>
    </Div>


</body>
</html>
```

Output:-



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.

```
<!DOCTYPE html>
<html>
<head>
    <title>Home - My Blog</title>
</head>
<body>
    <div>
        <a href="index.html">Home</a>
        <a href="https://www.coursera.org/courses?query=web%20development">Web
Development</a>
        <a
href="https://www.coursera.org/specializations/web-design?utm_medium=institutions
&utm_source=umich&utm_campaign=adwords-web-design-for-everybody&utm_term=web%20de
sign%20specialization&gad_source=1&gclid=CjwKCAjwvr--BhB5EiwAd5YbXmlirxNvKyfnXetl
hn9v9dbl26tHKcMBYgMWuktJurRzwyMNqYSqJhoCMqYQAvD_BwE">Web Design</a>
    </div>

    <h1>Welcome to My Blog</h1>
    <p>Hi, I'm Om Kumar. This is my personal blog where I share insights about
web development and web design.</p>
</body>
</html>
```

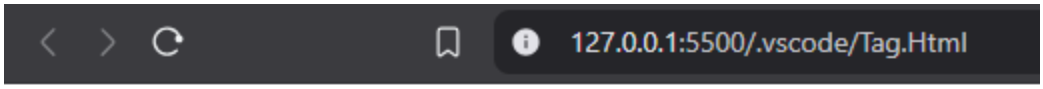
Output:-

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

```
<!DOCTYPE html>
<html>
<head>
    <title>Home - My Blog</title>
</head>
<body>

    <h2>HTML Tags List</h2>
    <ol>
        <li><strong>&lt;html&gt;</strong> - Defines the root of an HTML
document.</li>
        <li><strong>&lt;head&gt;</strong> - Contains metadata and links to
scripts and styles.</li>
        <li><strong>&lt;title&gt;</strong> - Sets the title of the web page.</li>
        <li><strong>&lt;body&gt;</strong> - Contains the visible content of the
page.</li>
        <li><strong>&lt;h1&gt; to &lt;h6&gt;</strong> - Defines HTML
headings.</li>
        <li><strong>&lt;p&gt;</strong> - Defines a paragraph.</li>
        <li><strong>&lt;a&gt;</strong> - Creates a hyperlink.</li>
        <li><strong>&lt;img&gt;</strong> - Embeds an image.</li>
        <li><strong>&lt;ul&gt; &lt;ol&gt; &lt;li&gt;</strong> - Defines lists
(unordered, ordered, and list items).</li>
```

```
        <li><strong>&lt;table&gt;</strong> - Creates a table.</li>
    </ol>
</body>
</html>
```

Output:-



HTML Tags List

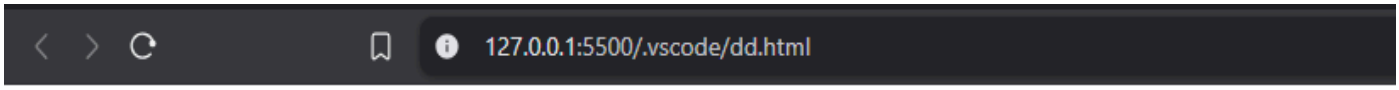
1. **<html>** - Defines the root of an HTML document.
2. **<head>** - Contains metadata and links to scripts and styles.
3. **<title>** - Sets the title of the web page.
4. **<body>** - Contains the visible content of the page.
5. **<h1> to <h6>** - Defines HTML headings.
6. **<p>** - Defines a paragraph.
7. **<a>** - Creates a hyperlink.
8. **<img>** - Embeds an image.
9. ** ** - Defines lists (unordered, ordered, and list items).
10. **<table>** - Creates a table.

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.

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

    <h2>Full Stack Web Development Tech Stack</h2>
    <dl>
        <dt>HTML</dt>
        <dd>The standard markup language for creating web pages.</dd>

        <dt>CSS</dt>
        <dd>Styles the web pages to make them visually appealing.</dd>

        <dt>JavaScript</dt>
        <dd>A programming language used to create dynamic and interactive web
content.</dd>

        <dt>React</dt>
        <dd>A JavaScript library for building user interfaces, especially for
single-page applications.</dd>

        <dt>Node.js</dt>
        <dd>A JavaScript runtime that allows running JavaScript on the
server-side.</dd>

        <dt>Express.js</dt>

        <dd>A minimal and flexible Node.js web application framework for building
APIs.</dd>

        <dt>MongoDB</dt>
        <dd>A NoSQL database used for storing data in JSON-like format.</dd>

        <dt>MySQL</dt>
```

```
        <dd>A relational database management system commonly used for structured
data storage.</dd>

        <dt>Git</dt>
        <dd>A version control system used for tracking changes in code.</dd>

        <dt>Docker</dt>
        <dd>A containerization platform that helps in deploying applications in
isolated environments.</dd>
    </dl>
</body>
</html>
```

Output:-



Full Stack Web Development Tech Stack

HTML
: The standard markup language for creating web pages.

CSS
: Styles the web pages to make them visually appealing.

JavaScript
: A programming language used to create dynamic and interactive web content.

React
: A JavaScript library for building user interfaces, especially for single-page applications.

Node.js
: A JavaScript runtime that allows running JavaScript on the server-side.

Express.js
: A minimal and flexible Node.js web application framework for building APIs.

MongoDB
: A NoSQL database used for storing data in JSON-like format.

MySQL
: A relational database management system commonly used for structured data storage.

Git
: A version control system used for tracking changes in code.

Docker
: A containerization platform that helps in deploying applications in isolated environments.

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.

```
<!DOCTYPE html>
<html>
<head>
    <title>Order List</title>
</head>
<body>

    <h2>Full Stack Web Development Tech Stack</h2>
    <ol>
        <li>
            <h3>HTML</h3>
            <table border="1">
                <tr>
                    <th>Tech Stack</th>
                    <th>Primary Use Cases</th>
                    <th>Key Features/Benefits</th>
                </tr>
                <tr>
                    <td>HTML</td>
                    <td>Structuring web pages</td>
                    <td>Semantic elements, easy to learn, widely supported</td>
                </tr>
            </table>
        </li>
        <li>
            <h3>CSS</h3>
            <table border="1">
                <tr>
                    <th>Tech Stack</th>
                    <th>Primary Use Cases</th>
                    <th>Key Features/Benefits</th>
                </tr>
                <tr>
                    <td>CSS</td>
```

```
                    <td>Styling web pages</td>
                    <td>Responsive design, animations, customization</td>
                </tr>
            </table>
        </li>
        <li>
            <h3>JavaScript</h3>
            <table border="1">
                <tr>
                    <th>Tech Stack</th>
                    <th>Primary Use Cases</th>
                    <th>Key Features/Benefits</th>
                </tr>
                <tr>
                    <td>JavaScript</td>
                    <td>Interactive and dynamic web content</td>
                    <td>Client-side scripting, event-driven programming, large
ecosystem</td>
                </tr>
            </table>
        </li>
    </ol>
</body>
</html>
```

Output:-

Full Stack Web Development Tech Stack

1. **HTML**

Tech Stack	Primary Use Cases	Key Features/Benefits
HTML	Structuring web pages	Semantic elements, easy to learn, widely supported

2. **CSS**

Tech Stack	Primary Use Cases	Key Features/Benefits
CSS	Styling web pages	Responsive design, animations, customization

3. **JavaScript**

Tech Stack	Primary Use Cases	Key Features/Benefits
JavaScript	Interactive and dynamic web content	Client-side scripting, event-driven programming, large ecosystem

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

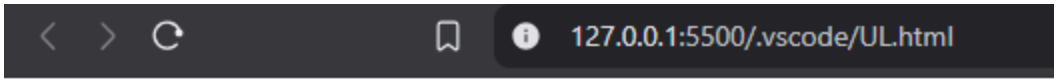
```
<!DOCTYPE html>
<html>
<head>
    <title>UnOrder list</title>
</head>
<body>


    <h2>Multi-Level Table of Contents</h2>
```

```
    <ul>
        <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">Part:1 Introduction.</a> </li>
        <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">Part:2 Getting Start</a></li>
        <ul>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.1 Installing the software</a></li>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.2 Creating a New projects</a></li>
            <ul>
                <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.2.1 Project Templates</a></li>
                <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.2.2 Customizing Setting</a></li>
            </ul>
        <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.3 Exploring the Interface</a>
            <ul>
                <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.3.1 Toolbar features</a>
                    <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.3.2 Panel Layout</a>
                        <ul>
                            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.3.2.1 Docking Panels</a></li>
                            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">2.3.2.2 Tabbed Interface</a></li>
```

```
                    </ul>
            </ul>
        </ul>

    </ul>



<ul>
    <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">Part:3 Advance Topics.</a> </li>
    <ul>
        <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.1 Working with Plugins</a> </li>
        <ul>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.1.1 Installing Plugins</a> </li>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.1.2 Plugin Configuration</a> </li>
        </ul>
        <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.2 Customizing the UI</a> </li>
        <ul>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.2.1 Changing Themes</a> </li>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.2.2 Configuring Shortcuts</a> </li>
        </ul>
        <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-your-windows-pc/1/">3.3 Optimizing Performance</a> </li>
        <ul>
```

```
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">3.3.1 Caching Strategies</a> </li>
            <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">3.3.2 Resources Minification</a> </li>
        </ul>
    </ul>
</ul>
<ul>
    <li><a
href="https://edu.gcfglobal.org/en/basic-computer-skills/installing-software-on-y
our-windows-pc/1/">Part:4 Conclusion</a> </li>
</ul>
</body>
</html>
```

Output:-



Multi-Level Table of Contents

- Part:1 Introduction.
- Part:2 Getting Start
  - 2.1 Installing the software
  - 2.2 Creating a New projects
    - 2.2.1 Project Templates
    - 2.2.2 Customizing Setting
  - 2.3 Exploring the Interface
    - 2.3.1 Toolbar features
    - 2.3.2 Panel Layout
      - 2.3.2.1 Docking Panels
      - 2.3.2.2 Tabbed Interface

- Part:3 Advance Topics.
  - 3.1 Working with Plugins
    - 3.1.1 Installing Plugins
    - 3.1.2 Plugin Configuration
  - 3.2 Customizing the UI
    - 3.2.1 Changing Themes
    - 3.2.2 Configuring Shortcuts
  - 3.3 Optimizing Performance
    - 3.3.1 Caching Strategies
    - 3.3.2 Resources Minification

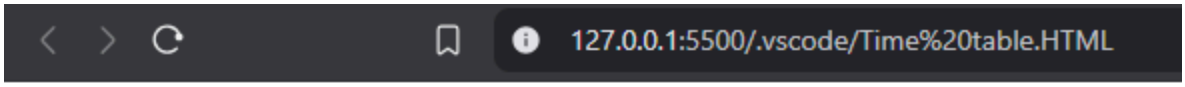
- Part:4 Conclusion

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

```
<!DOCTYPE html>
<html>
<head>
    <title>Time Table</title>
</head>
<body>
    <h1>Conference Schedule</h1>
  <table border="1" cellpading="10" cellspacing="10">
    <tr>
        <th>
            Time
        </th>
        <th>
            Room 1
        </th>
        <th>
            Room 2
        </th>
        <th>
            Room 3
        </th>
        <th>
            Room 4
        </th>
    </tr>
    <tr>
        <td rowspan="3">9:00 Am - 10:00 AM</td>
        <td rowspan="2">Keynote</td>
        <td>Session A</td>
        <td>Session B</td>
        <td rowspan="3">Session C</td>
    </tr>
    <td>Session D</td>
    <td>Session E</td>
```

```
    <tr>
        <td>10:00 AM - 11:30 AM</td>
        <td colspan="2"> Session 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> Session G</td>
        <td rowspan="2">Session H</td>
        <td> Session I</td>
        <td> Session J</td>
    </tr>
    <tr>
        <td> Session K</td>
        <td> Session L</td>
        <td> Session M</td>
    </tr>
  </table>
</body>
</html>
```

Output:-



Conference Schedule

<table>
<tr><th>Time</th><th>Room 1</th><th>Room 2</th><th>Room 3</th><th>Room 4</th></tr>
<tr><td rowspan="3">9:00 Am - 10:00 AM</td><td rowspan="2">Keynote</td><td>Session A</td><td>Session B</td><td rowspan="3">Session C</td></tr>
<tr><td>Session D</td><td>Session E</td></tr>
<tr><td colspan="3">10:00 AM - 11:30 AM
Session 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>Session G</td><td rowspan="2">Session H</td><td>Session I</td><td>Session J</td></tr>
<tr><td>Session K</td><td>Session L</td><td>Session M</td></tr>
</table>