CORE HTML ASSIGNMENT

***ASSIGNMENT SOLUTION*:**

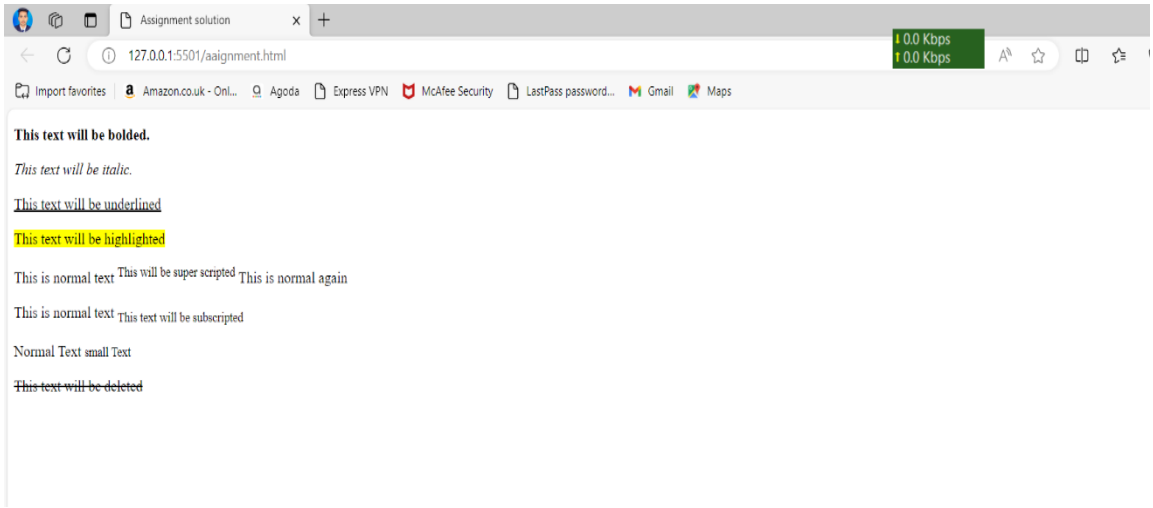
Q1.Build a simple webpage that display text as shown in the below image.

ANS:- <!DOCTYPE html>

```
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport"
content="width=device-width, initial-scale=1.0">
   <title>Assignment solution</title>
</head>
<body>
   <p>
      <b>This text will be bolded.</b>
   </p>
   <p>
      <i>This text will be italic.</i>
   </p>
```

```
    <p>
        <u>This text will be underlined</u>
    </p>
    <p style="background-color: yellow; display: inline;" >This text will be highlighted</p>
    <p>This is normal text <sup>This will be super scripted</sup> This is normal again</p>
    <p>This is normal text <sub>This text will be subscripted</sub></p>
    <p>Normal Text <small>small Text</small> </p>
    <p><del>This text will be deleted</del></p>
</body>
</html>
```

Output:



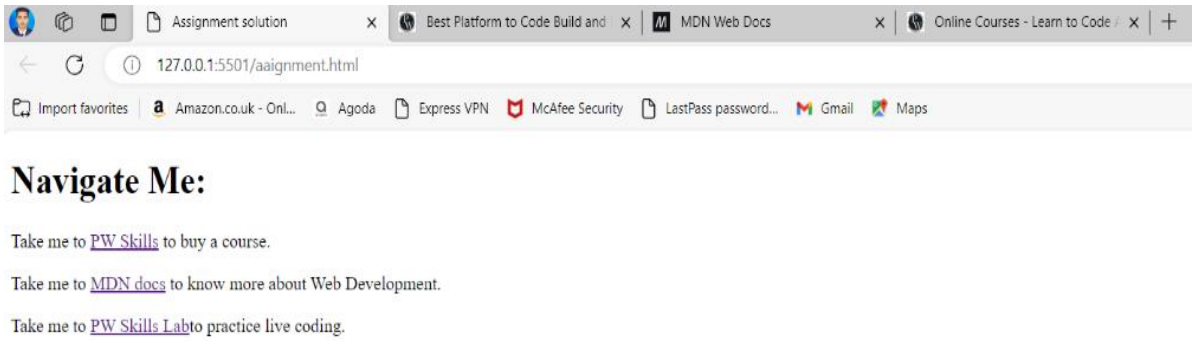
Q2. Build a simple webpage that helps users navigate different web development -related website. Note: on clicking the hyperlink the webpage should open in a new tab. Below is a reference image.

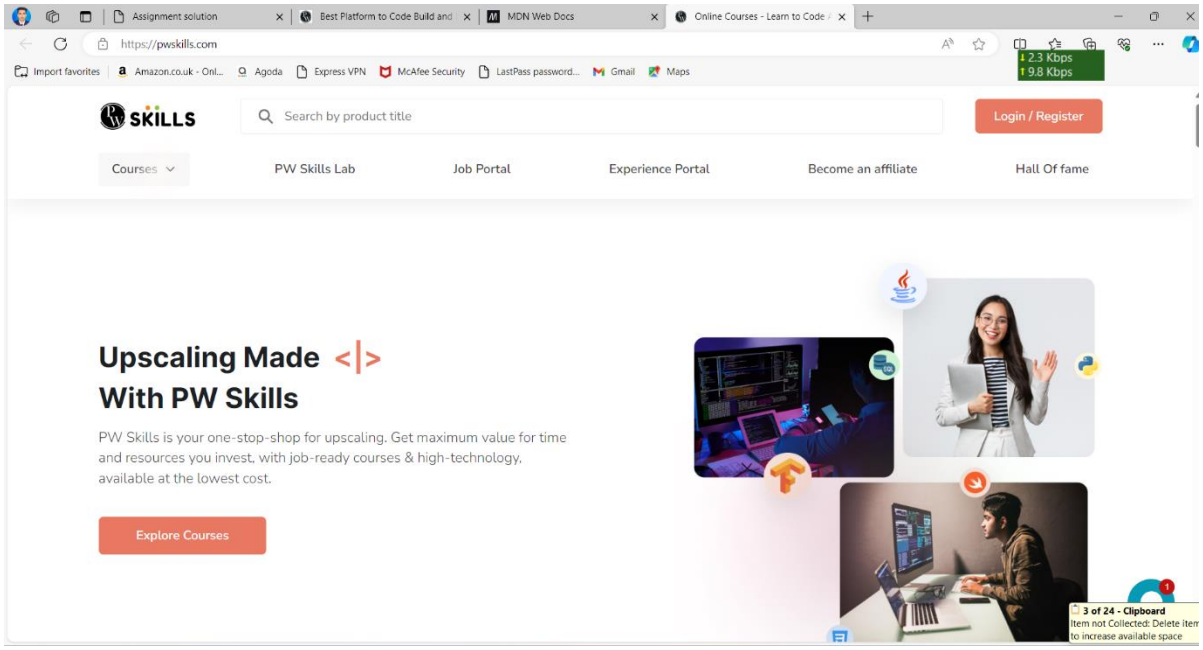
Ans:-

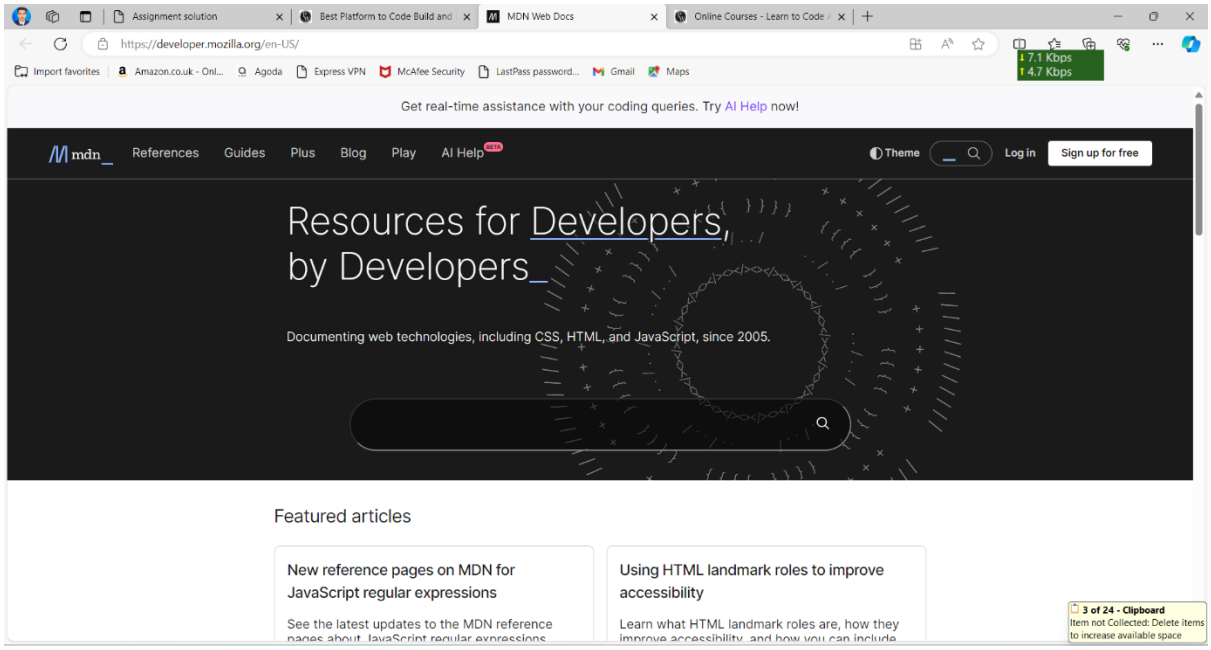
```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Assignment solution</title>
</head>
<body>
   <h1>Navigate Me:</h1>
   <p>Take me to <a target="_blank" href="http://pwskills.com"> PW Skills</a> to buy a course.</p>
   <p>Take me to <a target="_blank" href="https://developer.mozilla.org/en-us"> MDN docs</a> to know more about Web Development.</p>
```

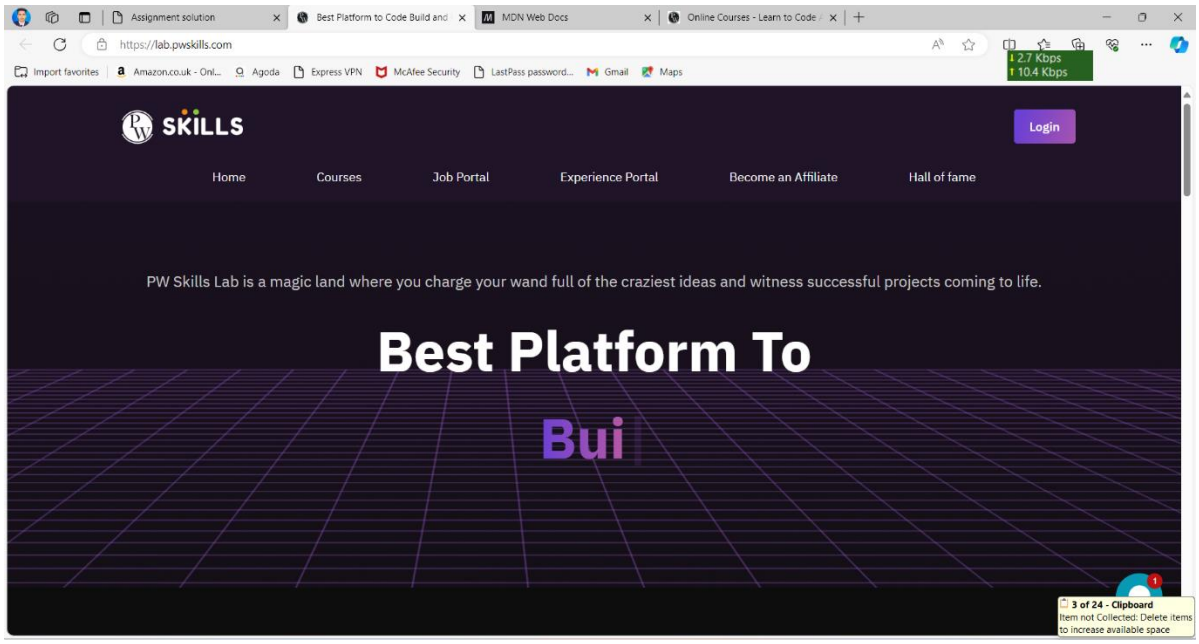
```
    <p>Take me to <a target="_blank" href="http://lab.pwskills.com">PW Skills Lab</a>to practice live coding. </p>
</body>
</html>
```

Output:-









Q3.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.

Ans:-<u>home.index</u>

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>webpage</title>
</head>
<body>
   <div>
   <a href="./home.html">Home</a>
   <a href="./webdevelopment.html"> Web Development</a>
   <a href="./webdesign.html"> Web Design</a>
</div>
<div>
   <h1>Home</h1>
   <p> A home page (or homepage) is the main web page of a The term may also refer to the start page shown in a web browser when the application first opens.
```

Usually, the home page is located at the root of the website's domain or subdomain. it typically displays a group of icons that are clicked or tapped to activate applications and internal functions. For computers, the startup screen displays the desktop, and it is sometimes also called the home screen.

The first screen of information displayed when a mobile device is started. Also called the "home page" and "main menu," it typically displays a group of icons that are clicked or tapped to activate applications and internal functions. For computers, the startup screen displays the desktop, and it is sometimes also called the home screen. See home button, widget, main menu and desktop.</p>

```
</div>

</body>

</html>
```

Web Development.index:

```
<!DOCTYPE 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>
    <div>
        <a href="./home.html">Home</a>
        <a href="./webdevelopment.html"> Web Development</a>
        <a href="./webdesign.html"> Web Design</a>
    </div>
    <div>
        <div>
            <h1>Web Development</h1>
            <p>
                Web development is the work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network).[1] Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services. A more comprehensive list of tasks to which
```

Web development commonly refers, may include Web engineering, Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security configuration, and e-commerce development.

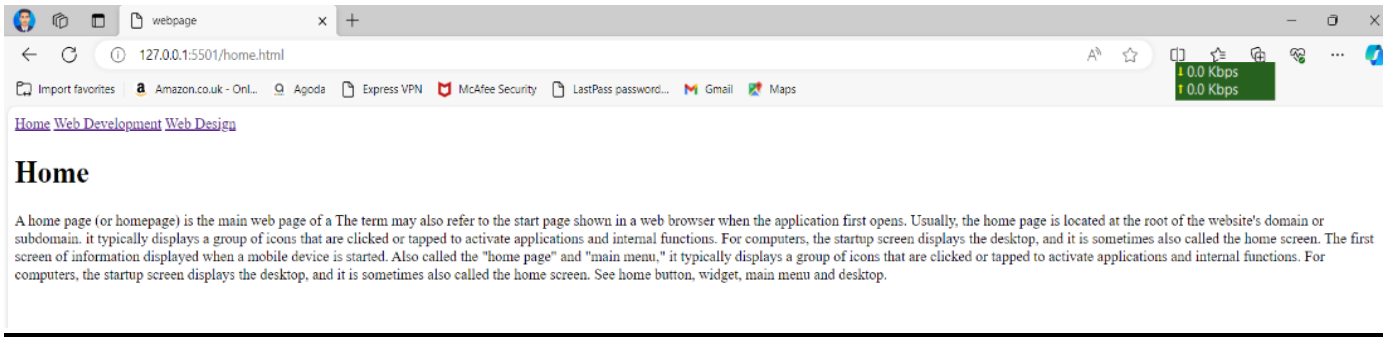
```
        </p>
    </div>
</body>
</html>
```

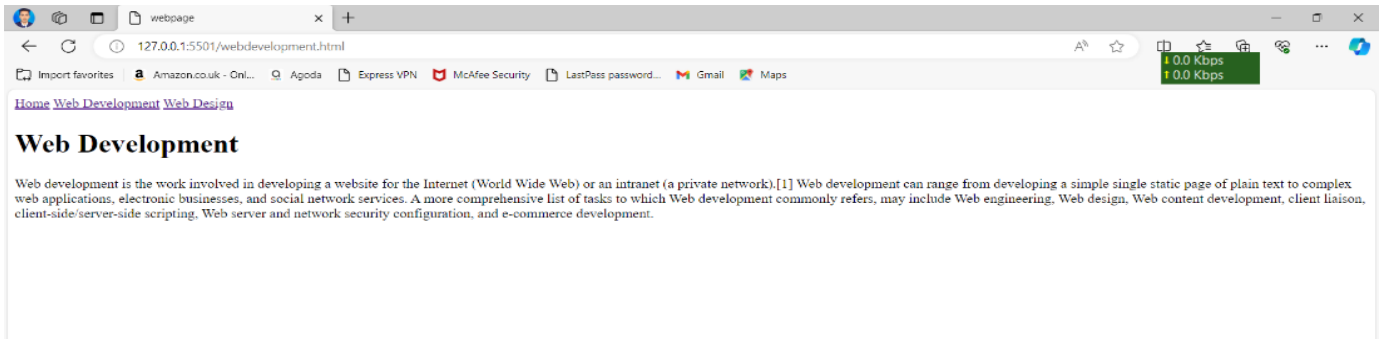
Web Design.index:

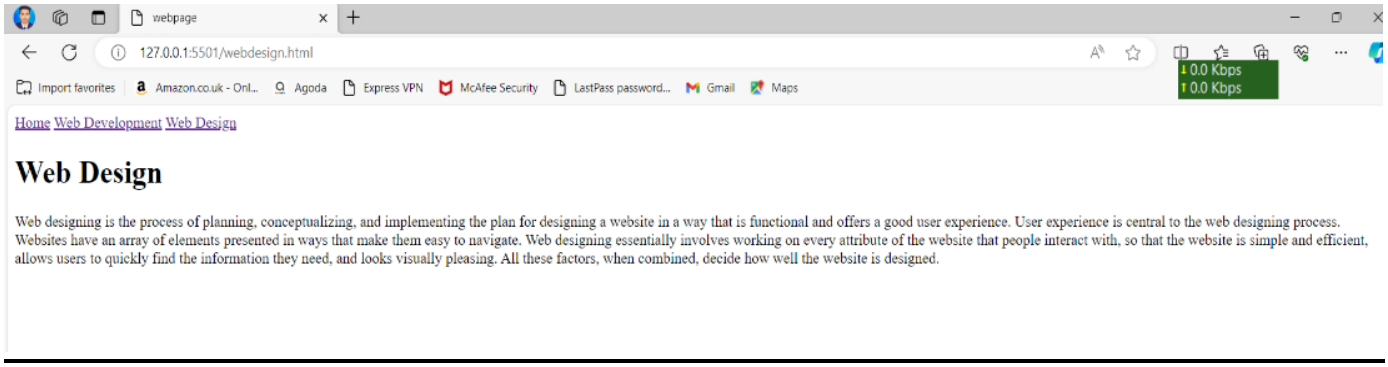
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>webpage</title>
</head>
<body>
  <div>
    <a href="./home.html">Home</a>
```

```
        <a href="./webdevelopment.html"> Web Development</a>
        <a href="./webdesign.html"> Web Design</a>
    </div>
    <div>
    <h1> Web Design</h1>
    <p>Web designing is the process of planning, conceptualizing, and implementing the plan for designing a website in a way that is functional and offers a good user experience. User experience is central to the web designing process. Websites have an array of elements presented in ways that make them easy to navigate. Web designing essentially involves working on every attribute of the website that people interact with, so that the website is simple and efficient, allows users to quickly find the information they need, and looks visually pleasing. All these factors, when combined, decide how well the website is designed.
    </p>
    </div>
</body>
</html>
```

Output:







Q4. Create an ordered list of html tags. Each list iteam must include the tagname and some information about the tag.

Ans:- <!DOCTYPE html>

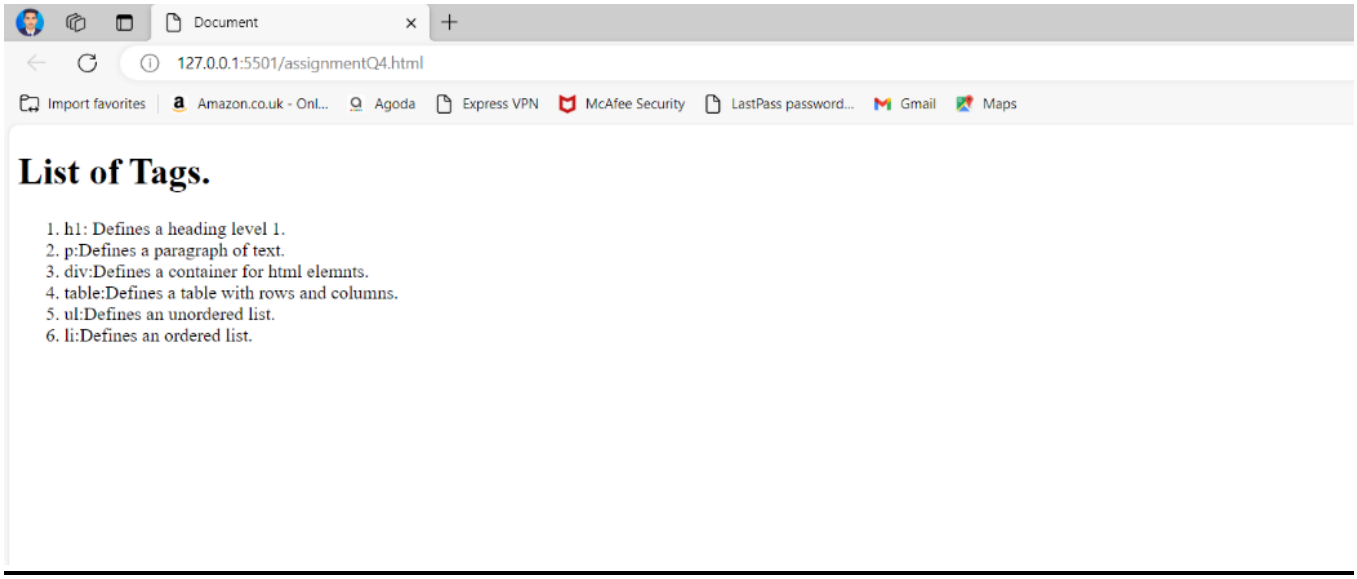
<html lang="en">

<head>

    <meta charset="UTF-8">

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>List of Tags.</h1>
    <ol>
        <li>h1: Defines a heading level 1.</li>
        <li>p:Defines a paragraph of text.</li>
        <li>div:Defines a container for html elemnts.</li>
        <li>table:Defines a table with rows and columns.</li>
        <li>ul:Defines an unordered list.</li>
        <li>li:Defines an ordered list.</li>
    </ol>
    </body>
</html>
```

Output:



Q5.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 brief explanation of what the stack is used for.

Ans:- <!DOCTYPE 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>Full Stack Web Development Tech Stack:</h1>

<dl>

<dt>HTML</dt>

<dd>

HTML (Hypertext Markup Language) is a text-based approach to describing how content contained within an HTML file is structured. This markup tells a web browser how to display text, images and other forms of multimedia on a webpage. HTML stands for HyperText Markup Language. It is used to design web pages using a markup language. HTML is a combination of Hypertext and Markup language. Hypertext defines the link between web pages. A markup language is used to define the text document within the tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. </dd>

<dt>CSS</dt>

<dd>

CSS (Cascading Style Sheets) is a simply designed language intended to simplify the process of making

web pages presentable. CSS allows you to apply styles to HTML documents. It describes how a webpage should look. It prescribes colors, fonts, spacing, etc. In short, you can make your website look however you want. CSS lets developers and designers define how it behaves, including how elements are positioned in the browser.

</dd>

<dt>JavaScript</dt>

<dd>

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

JavaScript was first known as LiveScript, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name LiveScript. The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers.

</dd>

<dt>Node.js</dt>

<dd>

Node.js is an open-source and cross-platform JavaScript runtime environment. It is a popular tool for almost any kind of project!Node.js runs the V8 JavaScript engine, the core of Google Chrome, outside of the browser. This allows Node.js to be very performant.

A Node.js app runs in a single process, without creating a new thread for every request. Node.js provides a set of asynchronous I/O primitives in its standard library that prevent JavaScript code from blocking and generally, libraries in Node.js are written using non-blocking paradigms, making blocking behavior the exception rather than the norm.

</dd>

<dt>Express.js</dt>

<dd>

Express JS is a small framework that works on top of Node web server functionality to simplify its APIs and add helpful new features. It makes it easier to organize your application's functionality with middleware and routing. It adds helpful utilities to

Node HTTP objects and facilitates the rendering of dynamic HTTP objects.

</dd>

<dt>MongoDB</dt>

<dd>

MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows you to work with that data very efficiently. It is categorized under the NoSQL (Not only SQL) database because the storage and retrieval of data in the MongoDB are not in the form of tables. The MongoDB database is developed and managed by MongoDB.Inc under SSPL(Server Side Public License) and initially released in February 2009. It also provides official driver support for all the popular languages like C, C++, C#, and .Net, Go, Java, Node.js, Perl, PHP, Python, Motor, Ruby, Scala, Swift, Mongoid. So, that you can create an application using any of these languages. Nowadays there are so many companies that used MongoDB like Facebook, Nokia, eBay, Adobe, Google, etc. to store their large amount of data.

</dd>

<dt>React.js</dt>

<dd>

React.js, more commonly known as React, is a free, open-source JavaScript library. It works best to build user interfaces by combining sections of code (components) into full websites. Originally built by Facebook, Meta and the open-source community now maintain it. One of the good things about React is that you can use it as much or as little as you want! For example, you can build your entire site in React or just use one single React component on one page.

```
    </dd>
    </dl>
</body>
</html>
```

Q6. Create an orderlist of the full stack web development tech stack Html,css,and js. For each tech stack,craete a table that lists the tech stack name,its primary use cases,and some key features or benefits.Below is a refrence image.

Ans:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

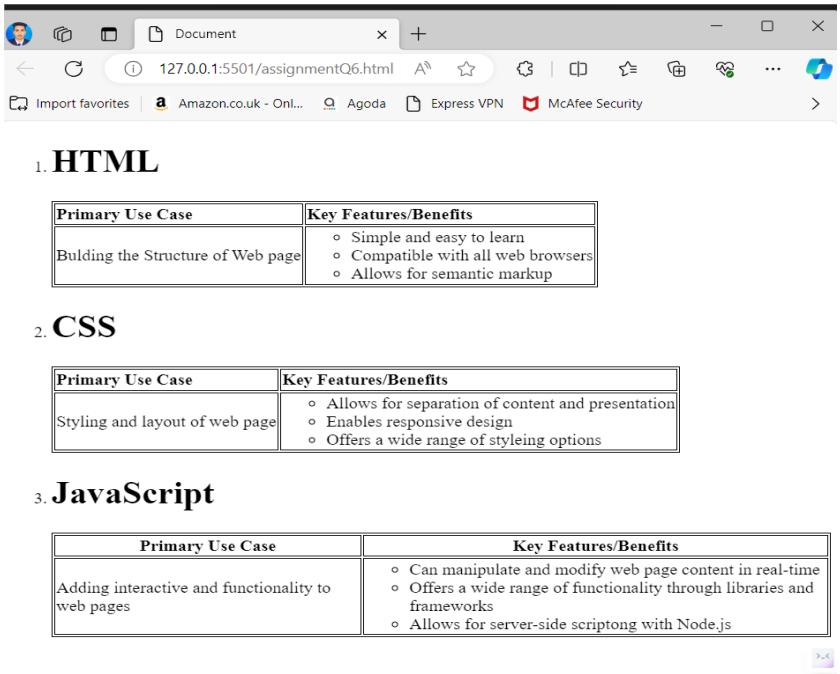
```
    <meta name="viewport" content="width=device-
width, initial-scale=1.0">
    <title>Document</title>
    <style>
        table,th,td{
            border:1px solid black;
        }
        </style>
</head>
<body>
    <ol>
        <li>
            <h1>HTML</h1>
            <table>
                <tr>
                    <th>Primary Use Case</th>
                    <th>Key Features/Benefits</th>
                </tr>
                <tr>
                    <td>Bulding the Structure of Web
page</td>
```

```
                <td>
                  <ul>
                    <li> Simple and easy to learn</li>
                    <li>Compatible with all web
browsers</li>
                    <li>Allows for semantic markup</li>
                <\/ul>
            <\/td>
            <\/tr>
        <\/table>
    <\/li>
    <li>
        <h1>CSS<\/h1>
        <table>
            <tr>
                <th>Primary Use Case<\/th>
                <th>Key Features/Benefits<\/th>
            <\/tr>
            <tr>
                <td>Styling and layout of web page<\/td>
```

```
                <td>
                    <ul>
                    <li>Allows for separation of content and
presentation </li>
                    <li>Enables responsive design</li>
                    <li>Offers a wide range of styleing
options</li>
                </ul>
                </td>
            </tr>
        </table>
    </li>
    <li>
        <h1>JavaScript</h1>
        <table>
            <tr>
                <th>Primary Use Case</th>
                <th>Key Features/Benefits</th>
            </tr>
        <tr>
```

```
            <td>Adding interactive and functionality to
web pages</td>
            <td>
              <ul>
                <li>Can manipulate and modify web page
content in real-time</li>
                <li> Offers a wide range of functionality
through libraries and frameworks</li>
                <li> Allows for server-side scriptong with
Node.js</li>
              </ul>
            </td>
          </tr>
      </table>
   </ol>
</li>
</body>
</html>
```

Output:



Q7. Build a complex nested list structure represnting a multi-level table of content.use unordered list and list items with inline-block styling to create a structured layout.Apply formating tags to enhance the presentation of list items.

Ans:- <!DOCTYPE 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 Content</h1>
    <ul>
        <li><a href="#">Part 1:Introduction</a></li>
        <li><a href="#">Part 2:Getting Started</a></li>
        <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>
        </ul>
        <ul>
            <li><a href="#">2.3 Exploring the
Interface</a></li>
            <ul>
```

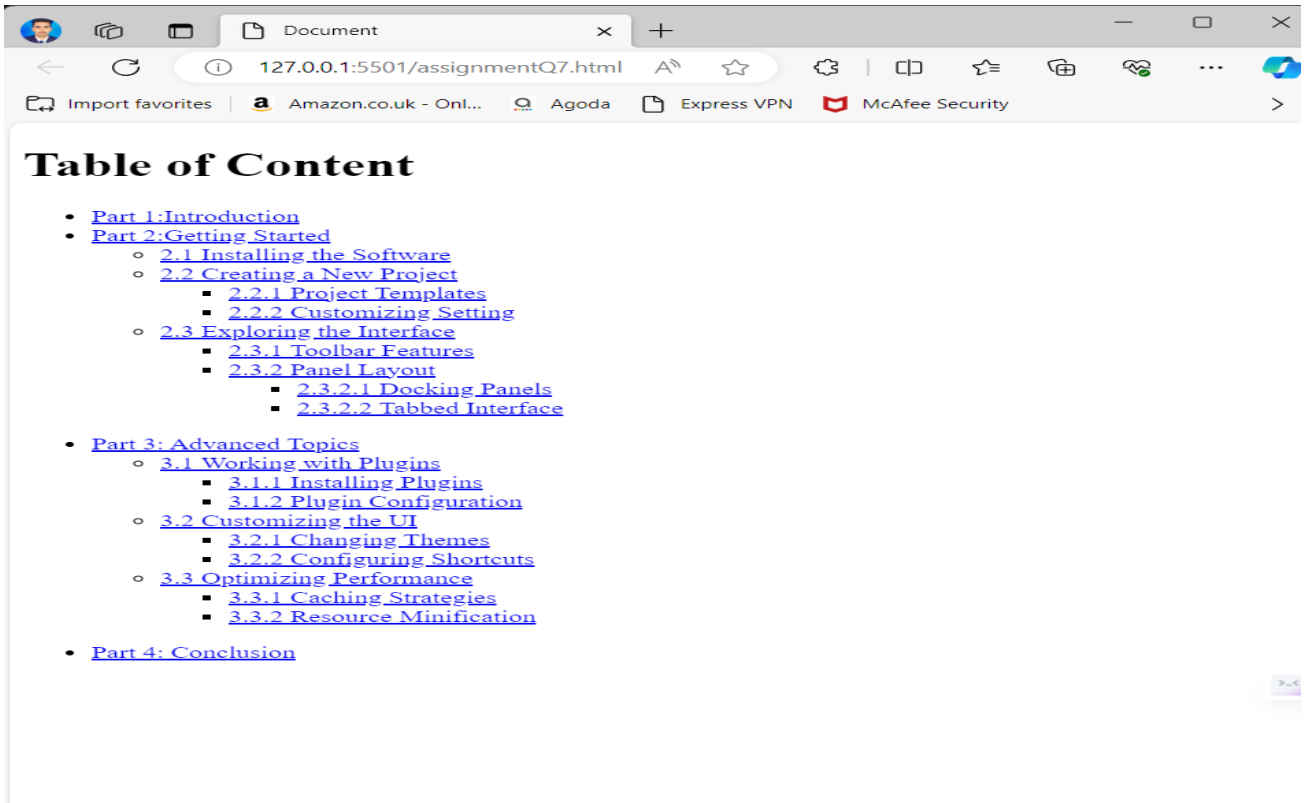
```
            <li><a href="#">2.3.1 Toolbar
Features</a></li>
            <li><a href="#">2.3.2 Panel Layout</a></li>
            <ul>
                <li><a href="#">2.3.2.1 Docking
Panels</a></li>
                <li><a href="#">2.3.2.2 Tabbed
Interface</a></li>
            </ul>
        </ul>
    </ul>
  </ul>
  <ul>
    <li><a href="#">Part 3: Advanced Topics</a></li>
    <ul>
        <li><a href="#">3.1 Working with
Plugins</a></li>
        <ul>
            <li><a href="#">3.1.1 Installing
Plugins</a></li>
            <li><a href="#">3.1.2 Plugin
Configuration</a></li>
```

```
        </ul>
    </ul>
    <ul>
        <li><a href="#">3.2 Customizing the UI</a></li>
        <ul>
            <li><a href="#">3.2.1 Changing
Themes</a></li>
            <li><a href="#">3.2.2 Configuring
Shortcuts</a></li>
        </ul>
    </ul>
    <ul>
        <li><a href="#">3.3 Optimizing
Performance</a></li>
        <ul>
            <li><a href="#">3.3.1 Caching
Strategies</a></li>
            <li><a href="#">3.3.2 Resource
Minification</a></li>
        </ul>
    </ul>
```

```
    </ul>
    <ul>
        <li><a href="#"> Part 4: Conclusion</a></li>
    </ul>


</body>
</html>
```

Output:



Q8. Create a table to display a confrence schedule.Each row corresponds to aim slot,and each column corresponds to a room. Some time slots might

have multible session running simultaneously in different rooms.utlize rowspan and colspan attributes as necessary to accommodate this complex schedule.(use table attribute”cellpadding “ to give extra padding in each table cell).

Ans:-

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
      table,th,td{
         border: 1px solid black;
      }
   </style>
</head>
<body>
   <h1>Conference Schedule</h1>
   <table>
```

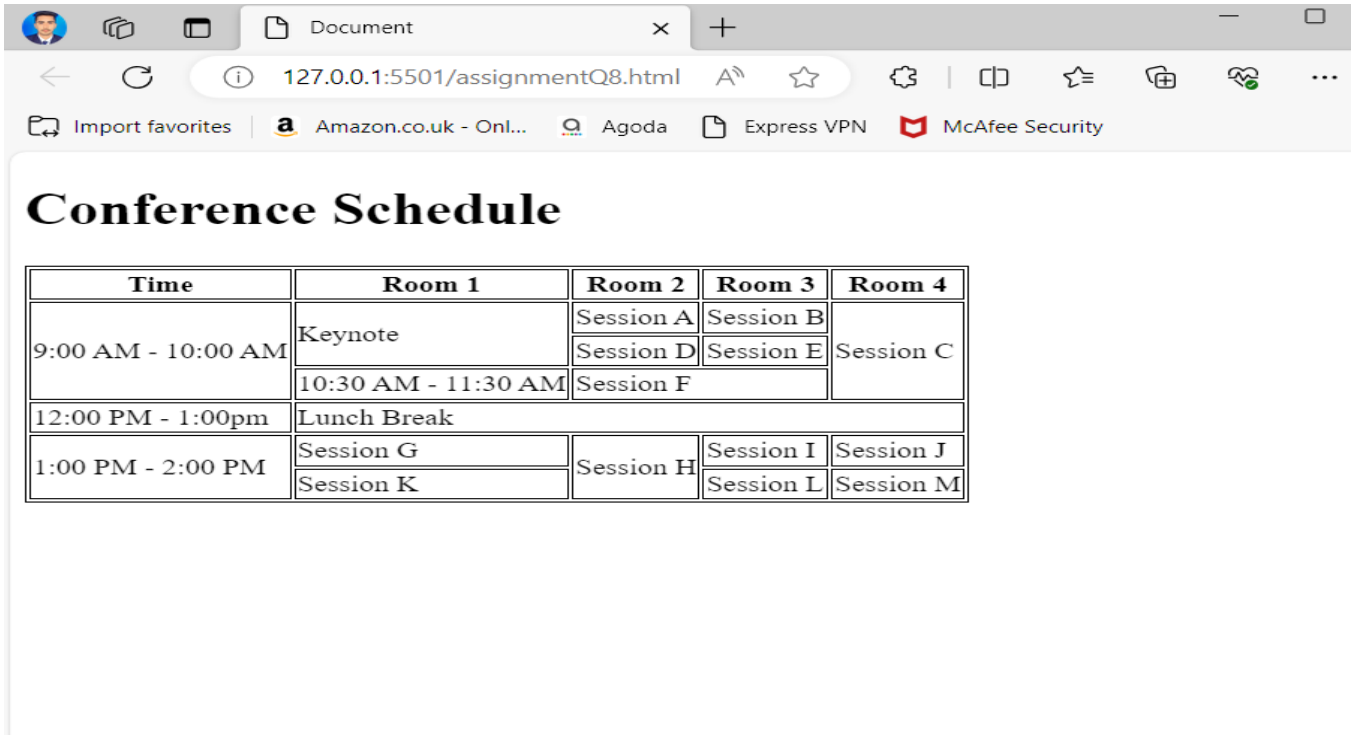
```
<tr>
    <th>Time</th>
    <th>Room 1</th>
    <th>Room 2</th>
    <th>Room 3</th>
    <th>Room 4</th>
</tr>
<tr>
    <td rowspan="3">9:00 AM - 10:00 AM</td>
    <td rowspan="2">Keynote</td>
    <td>Session A</td>
    <td>Session B</td>
    <td rowspan="3">Session C</td>
</tr>
<tr>
    <td>Session D</td>
    <td>Session E</td>
</tr>
<tr>
    <td>10:30 AM - 11:30 AM</td>
```

```
        <td colspan="2">Session F</td>
    </tr>
    <tr>
        <td>12:00 PM - 1:00pm</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

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

Complete