1. Demonstrate all the text formatting tags in a single HTML page

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Text Formatting in HTML</title>
</head>
<body>
    <h1>HTML Text Formatting Demonstration</h1>
    <p><b>Bold Text</b></p>
    <p><strong>Strong Text</strong></p>
    <p><i>Italic Text</i></p>
    <p><em>Emphasized Text</em></p>
    <p><u>Underlined Text</u></p>
    <p><ins>Inserted Text</ins></p>
    <p><del>Deleted Text</del></p>
    <p><s>Strikethrough Text</s></p>
    <p><mark>Highlighted Text</mark></p>
    <p><small>Small Text</small></p>
    <p><big>Big Text</big> (Deprecated)</p>
    <p>Superscript: x<sup>2</sup></p>
    <p>Subscript: H<sub>2</sub>O</p>
    <p><code>Monospaced (Code) Text</code></p>
    <p><pre>Preformatted Text Block
with spaces and new lines preserved</pre></p>
    <p><q>Short Quotation</q></p>
    <p>Blockquote:</p>
    <blockquote>
        This is an example of a blockquote. It is used to display long quotations.
    </blockquote>
    <p>Abbreviation: <abbr title="HyperText Markup Language">HTML</abbr></p>
    <p>Citation: <cite>Book Title</cite></p>
    <p>Definition: <dfn>HTML</dfn> stands for HyperText Markup Language.</p>
    <p>Keyboard Input: <kbd>Ctrl + C</kbd></p>
    <p>Variable: <var>x</var> = 10</p>
    <p>Sample Output: <samp>Program executed successfully</samp></p>
    <p>Address: <address>
        123 Web Street,<br>
        Code City, Internet.
    </address></p>

</body>
</html>
```

HTML Text Formatting Demonstration

Bold Text

Strong Text

Italic Text

Emphasized Text

<u>Underlined Text</u>

<u>Inserted Text</u>

~~Deleted Text~~

~~Strikethrough Text~~

<mark>Highlighted Text</mark>

<small>Small Text</small>

Big Text (Deprecated)

Superscript: x^2

Subscript: H_2O

`Monospaced (Code) Text`

```
Preformatted Text Block
    with spaces and new lines preserved
```

"Short Quotation"

Blockquote:

> This is an example of a blockquote. It is used to display long quotations.

Abbreviation: HTML

Citation: *Book Title*

Definition: *HTML* stands for HyperText Markup Language.

Keyboard Input: `Ctrl + C`

Variable: $x = 10$

Sample Output: `Program executed successfully`

Address:

123 Web Street,
Code City, Internet.

2. Write an HTML code to draw the following Figure

```
                        *

            *           *           *

      *           *           *           *           *

*           *           *           *           *           *           *
```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Star Pattern</title>
    <style>
        p{
            text-align: center;
        }
    </style>
</head>
<body>
    <p >*
* * *
* * * * *
* * * * * * *</p>
</body>
</html>

```
              *

            * * *

          * * * * *

        * * * * * * *
```

3. Create a web page to print the following table:

```html
<!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>
    <table border="5px">
        <tr>
            <th rowspan="2">
                Sr.No.
            </th>
            <th rowspan="2">
                Course
            </th>
            <th rowspan="2">
                Subject
            </th>
            <th colspan="2">
                Marks
            </th>
            <th colspan="2">
                Category
            </th>
            <th rowspan="2">
                Practical/Theory
            </th>
        </tr>
        <tr>
            <th>Internal</th>
            <th>External</th>
            <th>Internal</th>
            <th>External</th>
        </tr>
        <tr>
            <td rowspan="4">1</td>
            <td rowspan="4">MBA</td>
            <td>Management Accounting</td>
            <td> 30</td>
            <td> 70</td>
            <td> -</td>
            <td>&#10004</td>
```

```html
          <td> Theory</td>
      </tr>
      <tr>
          <td>Information Technology</td>
          <td> 30</td>
          <td> 70</td>
          <td> -</td>
          <td>&#10004</td>
          <td> T and P</td>
      </tr>
      <tr>
          <td>Basic of Marketing</td>
          <td> 30</td>
          <td> 70</td>
          <td> -</td>
          <td>&#10004</td>
          <td> Theory</td>
      </tr>
      <tr>
          <td>E-Commerce</td>
          <td> 50</td>
          <td> -</td>
          <td>&#10004</td>
          <td> -</td>
          <td> Theory</td>
      </tr>
      <tr>
          <td rowspan="6">2</td>
          <td rowspan="6">MCM</td>
          <td>Visual Basic</td>
          <td> 30</td>
          <td> 70</td>
          <td> -</td>
          <td>&#10004</td>
          <td> T - P</td>
      </tr>
      <tr>
          <td>Internet Technology</td>
          <td> 30</td>
          <td> 70</td>
          <td> -</td>
          <td>&#10004</td>
          <td> T and P</td>
      </tr>
      <tr>
          <td>Network Technology</td>
```

```html
            <td> 30</td>
            <td> 70</td>
            <td> -</td>
            <td>&#10004</td>
            <td> Theory</td>
         </tr>
         <tr>
            <td>VB.Net</td>
            <td> 30</td>
            <td> 70</td>
            <td> -</td>
            <td>&#10004</td>
            <td> T and P</td>
         </tr>
         <tr>
            <td>Linux</td>
            <td> 30</td>
            <td> 70</td>
            <td> -</td>
            <td>&#10004</td>
            <td> T and P</td>
         </tr>
         <tr>
            <td>ISA</td>
            <td> 50</td>
            <td> -</td>
            <td>&#10004</td>
            <td> -</td>
            <td> Theory</td>
         </tr>
      </table>
</body>
</html>
```

Sr.No.	Course	Subject	Marks		Category		Practical/Theory
			Internal	External	Internal	External	
1	MBA	Management Accounting	30	70	-	✓	Theory
		Information Technology	30	70	-	✓	T and P
		Basic of Marketing	30	70	-	✓	Theory
		E-Commerce	50	-	✓	-	Theory
2	MCM	Visual Basic	30	70	-	✓	T - P
		Internet Technology	30	70	-	✓	T and P
		Network Technology	30	70	-	✓	Theory
		VB.Net	30	70	-	✓	T and P
		Linux	30	70	-	✓	T and P
		ISA	50	-	✓	-	Theory

4. Using table related tags align the images with hyperlinks.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>tabl|frames</title>
    <style>
        table,tr,td{
            border: 5px solid rgba(0, 0, 0, 348);
        }
        img {
            height: 200px;

        }
    </style>
</head>
<body>
    <center>
        <h1>Table with Images</h1>
    <table border="5px" style="border-collapse: collapse;">

        <tr>
            <td><a href="https://www.vodafone.com"><img src="voda.jpg"></a></td>
            <td><a href="https://www.jio.com"><img src="jio.jpg" alt="jio"></a></td>
            <td><a href="https://www.airtel.com"><img src="air.jpg" alt="airtel"></a></td>
            <td><a href="https://www.tatadocomo.com"><img src="tata.jpg" alt="tata
docomo"></a></td>

        </tr>
        <tr>
        <td><a href="https://www.vodafone.com"><img src="voda.jpg"></a></td>
        <td colspan="2"><h1><center>table with company links</center></h1></td>
        <td><a href="https://www.jio.com"><img src="jio.jpg" alt="jio"></a></td>
    </tr>
        <tr>
            <td><a href="https://www.vodafone.com"><img src="voda.jpg"></a></td>
            <td><a href="https://www.jio.com"><img src="jio.jpg" alt="jio"></a></td>
            <td><a href="https://www.airtel.com"><img src="air.jpg" alt="airtel"></a></td>
            <td><a href="https://www.tatadocomo.com"><img src="tata.jpg" alt="tata
docomo"></a></td>
        </tr>
    </table>
    </center>
</body>
```

</html>

Table with Images

Vodafone	JIO DIGITAL LIFE	airtel	TATA DOCOMO
Vodafone	table with company links		JIO DIGITAL LIFE
Vodafone	JIO DIGITAL LIFE	airtel	TATA DOCOMO

5. Create a web page with the following using HTML:
       I. To embed an image map in a web page
       II.To fix the hot spots
       III.Show all the related information when the hot spots are clicked.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image Map with Hotspots</title>
</head>
<body>
  <h1>Interactive Image Map</h1>
  <p>Click on the highlighted areas to see related information.</p>

  <img src="https://interactive-examples.mdn.mozilla.net/media/examples/mdn-info2.png"
usemap="#image-map" alt="Example Image" width="600">

  <map name="image-map">
    <area shape="rect" coords="50,50,150,150" href="info1.html" alt="Info 1">
    <area shape="circle" coords="300,100,50" href="info2.html" alt="Info 2">
    <area shape="poly" coords="400,200,450,250,400,300,350,250" href="info3.html"
alt="Info 3">
  </map>
</body>
</html>
```

Interactive Image Map

Click on the highlighted areas to see related information.

6. Create a web page having frames as follows:

Your Name Punch line etc.		
Objective Personal Information Family Information Educational Information Experience Achievements Other	Display information here of selected link	Display relevant images here
Your contact details		

The frame which includes Objective, Personal Information ect. are the hyperlinks. Display the relevant information in the next frame on selecting the link.

The information should be well formatted. Follow the instructions mentioned in the above format.

```html
<!DOCTYPE html>
<html>
<head>
  <title>document</title>
</head>
<body>
  <table border="1" >
    <tr >
      <td colspan="3" align="center">Vishal Singh Naula<br>B.Tech Cse Student</td>
    </tr>
    <tr >
      <td>
        <a href="objective.html" target="content">Objective</a><br>
        <a href="personal_info.html" target="content">Personal Information</a><br>
        <a href="family_info.html" target="content">Family Information</a><br>
        <a href="education.html" target="content">Educational Information</a><br>
        <a href="experience.html" target="content">Experience</a><br>
        <a href="achievements.html" target="content">Achievements</a><br>
        <a href="other.html" target="content">Other</a>
      </td>
      <td >
        <iframe name="content"></iframe>
      </td>
      <td >
        <iframe name="img"></iframe>
      </td>
```

```
        </tr>
        <tr >
            <td colspan="3" align="center">vishalsinghnaula@gmail.com</td>
        </tr>
    </table>
</body>
</html>
```

Vishal Singh Naula		
B.Tech Cse Student		
Objective Personal Information Family Information Educational Information Experience Achievements Other	**Objective:** As a passionate and dedicated B.Tech Computer Science and Engineering student, I aim to leverage my technical knowledge, problem-solving skills, and innovative mindset to contribute effectively in the field of software	
vishalsinghnaula@gmail.com		

7. Write a HTML code for the following snapshot.

Basic information

Full name: [   ]

Birth date: [   ]

Gender: ○ Male ○ Female

Address: [   ]

Phone number: [   ]

Extra information

Interests: ☐ Books ☐ Movies ☐ Videogames

Favorite color: [▬▬]

[Send data] [Reset form]

```
<!DOCTYPE html>
<html>
<head>
   <title>Form Example</title>
</head>
<body>
   <form>
      <fieldset>
         <legend>Basic information</legend>
         <label for="name">Full name:</label>
         <input type="text" id="name" name="name"><br><br>

         <label for="birthdate">Birth date:</label>
         <input type="date" id="birthdate" name="birthdate"><br><br>

         <label>Gender:</label>
         <input type="radio" id="male" name="gender" value="male">
         <label for="male">Male</label>
         <input type="radio" id="female" name="gender" value="female">
         <label for="female">Female</label><br><br>
```

```html
        <label for="address">Address:</label>
        <input type="text" id="address" name="address"><br><br>

        <label for="phone">Phone number:</label>
        <input type="tel" id="phone" name="phone">
    </fieldset>

    <fieldset>
        <legend>Extra information</legend>
        <label>Interests:</label>
        <input type="checkbox" id="books" name="interests" value="Books">
        <label for="books">Books</label>
        <input type="checkbox" id="movies" name="interests" value="Movies">
        <label for="movies">Movies</label>
        <input type="checkbox" id="videogames" name="interests" value="Videogames">
        <label for="videogames">Videogames</label><br><br>

        <label for="color">Favorite color:</label>
        <input type="color" id="color" name="color">
    </fieldset>

    <br>
    <input type="submit" value="Send data">
    <input type="reset" value="Reset form">
  </form>
</body>
</html>
```

Basic information

Full name: [   ]

Birth date: [mm/dd/yyyy 📅]

Gender: ○ Male ○ Female

Address: [   ]

Phone number: [   ]

Extra information

Interests: ☐ Books ☐ Movies ☐ Videogames

Favorite color: [⬛]

[Send data] [Reset form]

8. Create a web page of customer profile for data entry of customers in a Hotel, The profile should include Name, Address, Age, gender, Room Type (A/C, Non-A/C or Deluxe), Type of payment (Cash, Credit/Debit Card or Coupons).

```html
<!DOCTYPE html>
<html>
<head>
    <title>Customer Profile - Hotel</title>
</head>
<body>
    <h2>Customer Profile Form</h2>
    <form>
        <label for="name">Full Name:</label>
        <input type="text" id="name" name="name" required><br><br>

        <label for="address">Address:</label>
        <input type="text" id="address" name="address" required><br><br>

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

        <label>Gender:</label>
        <input type="radio" id="male" name="gender" value="male" required>
        <label for="male">Male</label>
        <input type="radio" id="female" name="gender" value="female" required>
        <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other" required>
        <label for="other">Other</label><br><br>

        <label>Room Type:</label>
        <select name="room_type" required>
            <option value="ac">A/C</option>
            <option value="non-ac">Non A/C</option>
            <option value="deluxe">Deluxe</option>
        </select><br><br>

        <label>Type of Payment:</label>
        <input type="radio" id="cash" name="payment" value="cash" required>
        <label for="cash">Cash</label>
        <input type="radio" id="card" name="payment" value="card" required>
        <label for="card">Credit/Debit Card</label>
        <input type="radio" id="coupons" name="payment" value="coupons" required>
        <label for="coupons">Coupons</label><br><br>

        <input type="submit" value="Submit">
        <input type="reset" value="Reset">
```

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

Customer Profile Form

Full Name: [   ]

Address: [   ]

Age: [   ]

Gender: ○ Male ○ Female ○ Other

Room Type: [A/C   ▾]

Type of Payment: ○ Cash ○ Credit/Debit Card ○ Coupons

[Submit] [Reset]
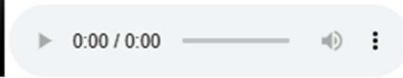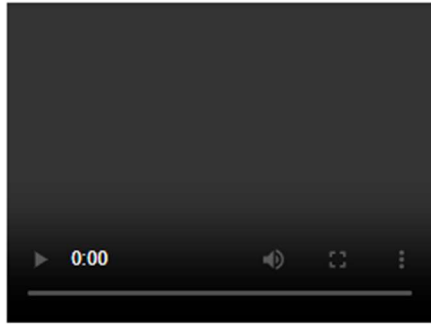
9. Demonstrate the use of following HTML5 Tags:
   I.   \<Video\>
   II.   \<Audio\>
   III.   \<Header\>
   IV.   \<Footer\>
   V.   \<Nav\>
   VI.   \<Embed\>
   VII.   \<Datalist\>
   VIII. \<Bdi\>
   IX.   \<Article\>
   X.   \<Output\>

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>HTML5 Tags Demonstration</title>
</head>
<body>
  <video width="320" height="240" controls>
    <source src="sample.mp4" type="video/mp4">
    Your browser does not support the video tag.
  </video>
  <audio controls>
    <source src="sample.mp3" type="audio/mpeg">
    Your browser does not support the audio element.
  </audio>
  <header>
    <h1>Welcome to My Website</h1>
  </header>
  <footer>
    <p>&copy; 2025 My Website</p>
  </footer>
  <nav>
    <ul>
      <li><a href="#">Home</a></li>
      <li><a href="#">About</a></li>
      <li><a href="#">Contact</a></li>
    </ul>
  </nav>
  <embed src="1.pdf" type="application/pdf" width="500" height="600">
  <input list="browsers" name="browser">
  <datalist id="browsers">
    <option value="Chrome">
    <option value="Firefox">
```

```html
      <option value="Edge">
      <option value="Safari">
  </datalist>
  <p>Username: <bdi>مرحبا</bdi></p>
  <article>
      <h2>HTML5 Introduction</h2>
      <p>HTML5 is the latest version of Hypertext Markup Language.</p>
  </article>
  <form oninput="result.value=parseInt(a.value)+parseInt(b.value)">
      <input type="number" id="a" value="10"> +
      <input type="number" id="b" value="20"> =
      <output name="result"></output>
  </form>

</body>
</html>
```
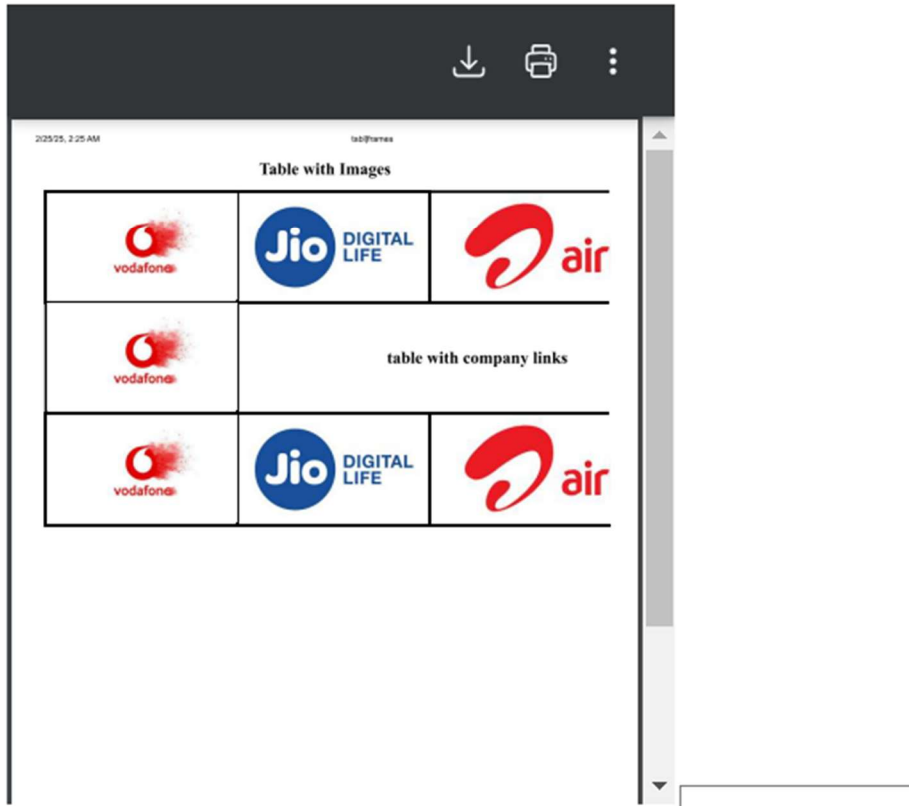
▶ 0:00 🔊 ⛶ ⋮

▶ 0:00 / 0:00 ━━━━━ 🔊 ⋮

Welcome to My Website

© 2025 My Website

- Home
- About
- Contact

⬇ 🖨 ⋮

2/25/25, 2:25 AM   tabl/frames

Table with Images

vodafone	Jio DIGITAL LIFE	air
vodafone	table with company links	
vodafone	Jio DIGITAL LIFE	air

Username: مرحبا

HTML5 Introduction

HTML5 is the latest version of Hypertext Markup Language.

10 + 25 = 35

10. Create a html page to using lists.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Programming and Web Development</title>
</head>
<body>
    <h1>1. <b>Programming Languages</b></h1>
    <ul>
        <li><b>Python</b>
            <ul>
                <li>Frameworks
                    <ol>
                        <li>Django</li>
                        <li>Flask</li>
                    </ol>
                </li>
                <li>Libraries
                    <ul>
                        <li>NumPy</li>
                        <li>Pandas</li>
                        <li>Matplotlib</li>
                    </ul>
                </li>
            </ul>
        </li>
        <li><b>Java</b>
            <ul>
                <li>Core Concepts
                    <ul>
                        <li>OOP</li>
                        <li>Multithreading</li>
                        <li>Exception Handling</li>
                    </ul>
                </li>
                <li>Frameworks
                    <ol>
                        <li>Spring</li>
                        <li>Hibernate</li>
                    </ol>
                </li>
            </ul>
        </li>
    </ul>
```

```html
<h1>2. <b>Web Development</b></h1>
<ul>
   <li><b>Frontend</b>
     <ul>
        <li>HTML</li>
        <li>CSS</li>
        <li>JavaScript
          <ul>
             <li>React</li>
             <li>Vue.js</li>
             <li>Angular</li>
          </ul>
        </li>
     </ul>
   </li>
   <li><b>Backend</b>
     <ul>
        <li>Node.js</li>
        <li>PHP</li>
        <li>Ruby on Rails</li>
     </ul>
   </li>
</ul>
</body>
</html>
```

1. Programming Languages

- **Python**
    - Frameworks
        1. Django
        2. Flask
    - Libraries
        - NumPy
        - Pandas
        - Matplotlib
- **Java**
    - Core Concepts
        - OOP
        - Multithreading
        - Exception Handling
    - Frameworks
        1. Spring
        2. Hibernate

2. Web Development

- **Frontend**
    - HTML
    - CSS
    - JavaScript
        - React
        - Vue.js
        - Angular
- **Backend**
    - Node.js
    - PHP
    - Ruby on Rails