### Day 1 Assignments

1) Write a program to display the heading and paragraph into the web page?

# This is a Heading

This is a paragraph of text. You can add more text here.

2) Write a program to differentiate the different doctype and their benefits?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>DOCTYPE Examples</title>
:/head>
body>
 <!-- HTML5 Doctype -->
 <!DOCTYPE html>
 <h1>HTML5 Doctype</h1>
 This is the doctype declaration for HTML5.
 <!-- HTML 4.01 Strict Doctype -->
 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"</pre>
'http://www.w3.org/TR/html4/strict.dtd">
 <h1>HTML 4.01 Strict Doctype</h1>
 This doctype declaration enforces strict adherence to HTML 4.01 specifications.
 <!-- XHTML 1.0 Transitional Doctype -->
 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
'http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
 <h1>XHTML 1.0 Transitional Doctype</h1>
 This doctype allows for a mix of HTML and XML syntax.
</body>
</html>
```

# **HTML5** Doctype

This is the doctype declaration for HTML5.

# **HTML 4.01 Strict Doctype**

This doctype declaration enforces strict adherence to HTML 4.01 specifications.

# **XHTML 1.0 Transitional Doctype**

This doctype allows for a mix of HTML and XML syntax.

### 3) Write a program to display the text formatting tags?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Text Formatting Tags</title>
</head>
<body>
<h1>Text Formatting Examples</h1>
<strong>Bold Text:</strong> This text is bold.
<em>Italic Text:</em> This text is italicized.
<u>Underlined Text:</u> This text is underlined.
<del>Deleted Text:</del> This text is marked as deleted.
xp><ins>Inserted Text:</ins> This text is marked as inserted.
<code>Code Text:</code> This text is formatted as code.
<sub>Subscript Text:</sub> This text is subscript.
<sup>Superscript Text:</sup> This text is superscript.
</body>
</html>
```

# **Text Formatting Examples**

```
Bold Text: This text is bold.

Italic Text: This text is italicized.

Underlined Text: This text is underlined.

Deleted Text: This text is marked as deleted.

Inserted Text: This text is marked as inserted.

Code Text: This text is formatted as code.

Subscript Text: This text is subscript.

Superscript Text: This text is superscript.
```

### 4) Write a program to highlight a text in the paragraph like below?

# **Highlighting Text Example**

This is a sample paragraph with some text. This text is highlighted. The rest of the paragraph continues here.

## 5) Write a program to show all meta tag attributes?

```
<meta name="description" content="A sample webpage with meta tags">
 <meta name="author" content="Your Name">
 <meta http-equiv="refresh" content="30">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="robots" content="index, follow">
 <meta name="theme-color" content="#007bff">
 <!-- Open Graph meta tags for social media -->
 <meta property="og:title" content="Your Website Title">
 <meta property="og:description" content="Description for social media">
 <meta property="og:image" content="url-to-your-image.jpg">
 <meta property="og:url" content="https://www.yourwebsite.com">
 <title>Meta Tag Attributes Example</title>
:/head>
(body>
 <h1>Your Web Content Goes Here</h1>
 This is a sample webpage with various meta tags.
</body>
</html>
```

## Your Web Content Goes Here

This is a sample webpage with various meta tags.

6) Write a program to highlight the text in the paragraph using bold, italic and underline tag?

## **Highlighting Text Example**

This is a sample paragraph with some bold, italic, and underlined text. You can combine these styles to achieve various text effects.

7) Write a program to highlight the paragraph text using inserted, deleted and stricken?

Inserted, Deleted, Strikethrough text in a paragraph.

8) Write a program to highlight the paragraph text using superscript and subscript?

This text contains superscript and subscript elements.

9) Write a program to link external css and external js files into the web page?

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
    link rel="stylesheet" href="styles.css">
        <script src="script.js" defer></script>
        <title>External Files Example</title>
</head>
</body>
         Hello everyone 
</body>
</html>
```

Hello everyone

### 10) Write a program to include internal css and internal js into the web page?

```
<!DOCTYPE html>
<html lang="en">
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <style>
   /* Internal CSS styles go here */
   body {
     background-color: red;
 </style>
 <script>
   // Internal JS script goes here
   console.log('Internal JS script');
 </script>
 <title>Internal Files Example</title>
</head>
<body>
  <h1>Content goes here</h1>
</body>
</html>
```

# Content goes here

## Day 2 Assignments

- 1) Write a program that displays the following output?
  - a) HTMI
  - b) CSS
  - c) JS

### Program:

```
<!DOCTYPE html>
<html>
<head>
    <title>Web Technologies</title>
</head>
<body>

            HTML
            SSS
            JS
            <lu>
            <hi>JS
            <lu>
            <html>
                 <html>
            <html>
            <html>
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            <html>
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                  <html>
                  <html>
```

- HTML
- CSS
- JS

- 2) Write a program that displays the following output?
  - a) Bootstrap
  - b) Ajax
  - c) Json
  - d) ReactJS

### Program:

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

- Bootstrap
- Ajax
- Json
- ReactJS
- 3) Write a program that displays the following output?
  - item 1
  - item 2
    - o sub-item 2.1
    - o sub-item 2.2
  - item 3

### Program:

```
<!DOCTYPE html>
<html>
<head>
    <title>Web Technologies</title>
</head>
<body>

    item 1
    item 2
    item 2
    item 2
    sub-item 2.1
    Sub-item 2.2
    item 3
    item 4
    item 4
```

4) write a program to explain the single and multi line comments in html? Program:

```
-->
</body>
</html>
```

5) Write a program that displays the following output?

row 1 col 1	row 1 col 2	row 1 col 3
This second row spans al	l three colun	nns
This cell spans two rows	row 3 col 2	row 3 col 3
	row 4 col 2	row 4 col 3

### Program:

```
<html>
     <title>Table</title>
     <style>
       table{
          margin: 0;
       table,th,td {
       border-collapse: collapse;
    </style>
  <body>
    row 1 col 1
          row 1 col 2
          row 1 col 3
       This second row spans all three columns
       This cell spans two rows
          row 3 col 2
          row 3 col 3
          row 4 col 2
          row 4 col 3
       </body>
```

6) Write a program to design semantic web page layout? Program:

```
<!DOCTYPE html>
<html>
<head>
 <title>Semantic Layout</title>
</head>
<body>
   <h1>Main Title</h1>
 </header>
   <l
     Home
     About
     Contact
   <section>
   <article>
     <h2>Article Title</h2>
     Article content goes here.
   </article>
   <article>
     <h2>Another Article</h2>
     More content here.
   </article>
 </section>
 <footer>
   © 2024 Your Website
 </footer>
/body>
</html>
```

## **Main Title**

- Home
- About
- Contact

## **Article Title**

Article content goes here.

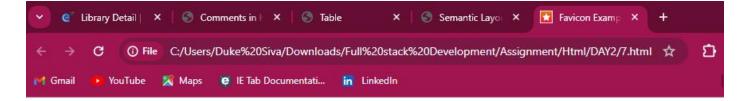
## **Another Article**

More content here.

© 2024 Your Website

7) Write a program to load 'favicons' into a web page?

#### Program:



## Welcome to My Website

This is a simple web page with a favicon.

8) Write a program to explain the use of 'div' tag?

```
<!DOCTYPE html>
<html>
 <title>Div Tag Example</title>
 <style>
   .container {
     width: 80%;
     margin: 0 auto;
     background-color: #14c92c;
     padding: 20px;
   }
 </style>
</head>
body>
 <div class="container">
   <h1>Main Content</h1>
   This is a simple example using the div tag for layout.
/body>
</html>
```

## **Main Content**

This is a simple example using the div tag for layout.

9) Write a program to show non semantic tags? Program:

```
<!DOCTYPE html>
<html>
<head>
 <title>Non-Semantic Tags</title>
</head>
<body>
 <div>Hi hello</div></body><br>
 <span>I am Manjula</span><br>
 <i>My Wishes</i><br>
 <b>love</b><br>
 <font color="red">This is a non-semantic font tag.</font>
 <center>This is a non-semantic center tag.
 <br>
 <u>This is a non-semantic underline tag.</u>
/body>
</html>
```

Hi hello

I am Manjula My Wishes

love

This is a non-semantic font tag.

This is a non-semantic center tag.

This is a non-semantic underline tag.

10) Write a program to display inline, block and inline-block elements? Program:

```
<!DOCTYPE html>
<html>
<head>
  <title>Display Property Example</title>
  <style>
    .inline {
      display: inline;
      border: 1px solid red;
      margin: 5px;
      padding: 5px;
}
```

```
.block {
     display: block;
     border: 1px solid green;
     margin: 5px;
     padding: 5px;
    .inline-block {
     display: inline-block;
     border: 1px solid blue;
     margin: 5px;
     padding: 5px;
  </style>
/head>
<body>
 <span class="inline">Inline</span>
 <div class="block">Block</div>
 <div class="inline-block">Inline-Block</div>
</body>
</html>
```

Inline

Block

Inline-Block

- 11) Write a program to explain about the 'void; elements such as
  - a) Area
  - b) Base
  - c) Br
  - d) Hr
  - e) Img
  - f) Input
  - g) Link
  - h) Meta
  - i) Param
  - j) Command
  - k) Keygen
  - I) Command
  - m) Source

Program:

```
!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Void Elements Example</title>
(/head>
<body>
 <!-- a) Area -->
 <area shape="rect" coords="34,44,270,350" alt="Clickable Area">
 <base href="https://www.example.com/">
  This is some text.<br>Text on a new line after a line break.
 <hr>>
 <img src="C:\Users\Duke Siva\Downloads\Full stack</pre>
Development\Assignment\Html\DAY3\assets\favicon image.jpeg" alt="An image">
 <!-- f) Input -->
 <input type="text" placeholder="Enter text">
 <!-- g) Link -->
 <link rel="stylesheet" href="styles.css">
 <!-- h) Meta -->
  <meta name="description" content="Web page description">
  <!-- i) Param -->
  <param name="autoplay" value="true">
 <!-- j) Command -->
  <command type="command" label="Save" icon="save.png" onclick="saveFunction()">
 <!-- k) Keygen -->
 <keygen name="user_key">
  <source src="video.mp4" type="video/mp4">
```

## Day 3 Assignments

- 1) Write a program that includes all the form input control element such as
  - a) Clss
  - b) Id
  - c) Type
  - d) Name
  - e) Disabled
  - f) Checked
  - g) Multiple
  - h) Placeholder
  - i) Autocomplete
  - j) Readonly
  - k) Required
  - I) Autofocus
  - m) Value
  - n) Step

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>All Form Input Elements</title>
(/head>
body>
 <form action="/submit" method="post">
   <!-- Class -->
   <label for="username">Username:</label>
   <input type="text" id="username" class="inputClass" name="username"><br>
   <label for="password">Password:</label>
   <input type="password" id="password" name="password"><br>
   <!-- Type -->
   <label for="email">Email:</label>
   <input type="email" id="email" name="email"><br>
   <label for="gender">Gender:</label><br>
   <input type="radio" id="male" name="gender" value="male"> Male<br>
   <input type="radio" id="female" name="gender" value="female"> Female<br>
   <!-- Disabled -->
   <label for="disabledInput">Disabled Input:</label><br>
   <input type="text" id="disabledInput" name="disabledInput" disabled>
   <!-- Checked -->
   <label for="checkMe">Check Me:</label><br>
   <input type="checkbox" id="checkMe" name="checkMe" checked>
   <!-- Multiple -->
   <label for="cars">Select Cars:</label><br>
   <select id="cars" name="cars" multiple>
```

```
<option value="volvo">Volvo</option><br>
     <option value="saab">Saab</option><br>
     <option value="mercedes">Mercedes</option><br>
     <option value="audi">Audi</option><br>
   </select>
   <!-- Placeholder -->
   <label for="placeholderInput">Placeholder Input:</label><br>
   <input type="text" id="placeholderInput" name="placeholderInput" placeholder="Enter</pre>
text">
   <!-- Autocomplete -->
   <label for="autocompleteInput">Autocomplete Input:</label><br>
   <input type="text" id="autocompleteInput" name="autocompleteInput" autocomplete="on">
   <!-- Readonly -->
   <label for="readonlyInput">Readonly Input:</label><br>
   <input type="text" id="readonlyInput" name="readonlyInput" readonly>
   <!-- Required -->
   <label for="requiredInput">Required Input:</label><br>
   <input type="text" id="requiredInput" name="requiredInput" required>
   <label for="autofocusInput">Autofocus Input:</label><br>
   <input type="text" id="autofocusInput" name="autofocusInput" autofocus</pre>
   <!-- Value -->
   <label for="valueInput">Value Input:</label><br>
   <input type="text" id="valueInput" name="valueInput" value="Default Value">
  <label for="stepInput">Step Input:</label><br>
  <input type="number" id="stepInput" name="stepInput" step="5">
  <input type="submit" value="Submit"><br>
 </form>
/html>
```

Username:	
Password:	
Email:	
Gender:	
O Male	
O Female	
Disabled Input:	
100 100	Check Me:
Select Cars:	
Volvo	
Saab	
Mercedes	
Audi Placeholo	ler Input:
Enter text	Autocomplete Input:
	Readonly Input:
	Required Input:
	Autofocus Input:
	Value Input:
Default Value	Step Input:
Control of the Contro	Submit

2) Write a program to explain 'fieldset' and 'legend'?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Fieldset and Legend Example</title>
body>
 <form action="/submit" method="post">
   <fieldset>
     <legend>Contact Information</legend>
     <label for="fname">First Name:</label>
     <input type="text" id="fname" name="fname">
     <label for="lname">Last Name:</label>
     <input type="text" id="lname" name="lname">
     <label for="email">Email:</label>
     <input type="email" id="email" name="email">
   <input type="submit" value="Submit">
 </form>
</body>
</html>
```

Contact Information			
First Name:	Last Name:	Email:	
Submit			

3) Write a program to validate the input field using 'minlength' and 'maxlength' attribute?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Input Validation Example</title>
</head>
<body>
 <form action="/submit" method="post">
   <label for="username">Username:</label>
   <input type="text" id="username" name="username" minlength="5" maxlength="10"</pre>
required>
    <input type="submit" value="Submit">
  </form>
</html>
```

Username:	Submit

4) Write a program to upload a file from local computer?

Select File: Choose File No file chosen Upload

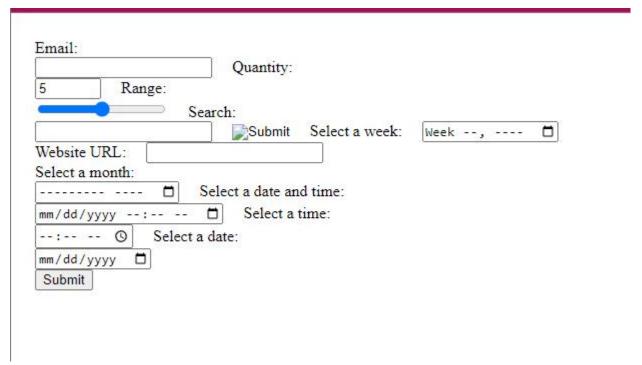
5) Write a program to differentiate between 'submit' and 'button'?

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Submit vs Button Differentiation</title>
</head>
body>
   <form id="myForm">
       <label for="username">Username:</label>
       <input type="text" id="username" name="username" required>
       <br>
       <!-- Submit Button -->
       <input type="submit" value="Submit" onclick="identifyElement(event)">
       <button type="button" onclick="identifyElement(event)">Click me (Button)
   </form>
/body>
Username:
 Submit
 Click me (Button)
```

6) Write a program that includes the following html5 input elements such as

- a) Email
- b) Number
- c) Range
- d) Search
- e) Image
- f) Week
- g) Url
- h) Month
- i) Datetime-local
- j) Time
- k) Date

```
!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>HTML5 Input Elements Example</title>
</head>
<body>
 <form action="/submit" method="post">
   <label for="email">Email:</label>
   <input type="email" id="email" name="email" required>
   <label for="quantity">Quantity:</label>
    <input type="number" id="quantity" name="quantity" min="1" max="10" step="1"</pre>
value="5">
    <label for="range">Range:</label>
    <input type="range" id="range" name="range" min="0" max="100" value="50">
   <label for="search">Search:</label>
    <input type="search" id="search" name="search">
   <input type="image" src="submit.png" alt="Submit">
   <label for="week">Select a week:</label>
   <input type="week" id="week" name="week">
   <label for="url">Website URL:</label>
   <input type="url" id="url" name="url">
   <label for="month">Select a month:</label>
   <input type="month" id="month" name="month">
   <label for="datetime">Select a date and time:</label>
   <input type="datetime-local" id="datetime" name="datetime">
   <label for="time">Select a time:</label>
    <input type="time" id="time" name="time">
   <label for="date">Select a date:</label>
   <input type="date" id="date" name="date">
   <input type="submit" value="Submit">
 </form>
</body>
```



7) Explain the difference between the method 'get' and 'post' with an example?

```
!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>GET vs POST Example</title>
<body>
 <form action="/submit" method="get">
    <input type="submit" value="Submit">
 </form>
 <form action="/submit" method="post">
    <input type="submit" value="Submit">
  </form>
/body>
(/html>
     Submit
     Submit
```

8) Write a program to create a student form in HTML?

<body></body>
<form action="/submit" method="post"></form>
<pre><label for="studentName">Student Name:</label> </pre>
<pre><input id="studentName" name="studentName" required="" type="text"/></pre>
<pre><label for="rollNumber">Roll Number:</label> </pre>
<pre><input id="rollNumber" name="rollNumber" required="" type="text"/></pre>
<pre><label for="department">Department:</label> </pre>
<pre><select id="department" name="department"></select></pre>
<pre><option value="CSE">Computer Science</option></pre>
<pre><option value="ECE">Electronics and Communication</option></pre>
<pre><option value="ME">Mechanical Engineering</option></pre>
<label for="grade">Grade:</label>
<pre><input id="grade" name="grade" required="" type="text"/></pre>
<pre><input type="submit" value="Submit"/></pre>
Student Name:
Roll Number:

Grade:

9) Write a program to display the progress bar?

Computer Science

Department:

Submit

## Uploading...

10) Write a program that can allow user to select multiple elements from the dropdown?

```
<!DOCTYPE html>
<html lang="en">
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Multiple Selection Dropdown Example</title>
(body>
 <form action="/submit" method="post">
   <label for="fruits">Select Fruits (multiple):</label>
   <select id="fruits" name="fruits[]" multiple>
     <option value="apple">Apple</option>
     <option value="banana">Banana</option>
     <option value="orange">Orange</option>
     <option value="grape">Grape</option>
     <option value="strawberry">Strawberry</option>
   </select>
   <input type="submit" value="Submit">
 </form>
/body>
```

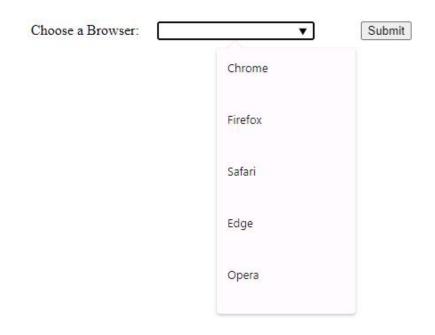
Apple
Banana
Orange
Select Fruits (multiple):

Grape

Submit

11) Write a program to explain about 'datalist' tag and their usage?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Datalist Example</title>
<body>
 <form action="/submit" method="post">
   <!-- Input element with datalist -->
   <label for="browser">Choose a Browser:</label>
   <input list="browsers" id="browser" name="browser" autocomplete="off">
   <!-- Datalist with predefined options -->
   <datalist id="browsers">
     <option value="Chrome">
     <option value="Firefox">
     <option value="Safari">
     <option value="Edge">
     <option value="Opera">
   </datalist>
   <input type="submit" value="Submit">
/body>
```



1) Write a program to link to excelr.com site in a new tab?

ExcelR Home page

Visit ExcelR

2) Write a program to open a link while click on excler logo image?

### ExcelR Logo



3) Write a program to Link to a page on the same site?

Go to Another Page

4) Write a program that Link that dials a number?

Call Us: +1 (234) 567-89

5) Write a program that links to an email client?

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

### Email Us

6) Write a program to load the images into a web page using absolute path and relative path?

Absolute Path Image Relative Path Image

7) Explain the use of 'alt' attributes in image loading and their benefits?

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Image with Alt Attribute</title>
</head>
cbody>
   <!-- Image with Alt Attribute -->
    <img src="C:\Users\Duke Siva\Downloads\Full stack Development\Pictures\download.jpeg"</pre>
alt="Description of the image">
    <h1>Benefits of 'alt' attribute:</h1>
    <h2>Accessibility:</h2>
        The primary purpose of the alt attribute is to enhance web accessibility<br> .
        If the image fails to load, the alternative text provides context to users about
the content or function of the image.
```



### Benefits of 'alt' attribute:

#### Accessibility:

The primary purpose of the alt attribute is to enhance web accessibility

. If the image fails to load, the alternative text provides context to users about the content or function of the image.

#### Screen Readers:

Screen readers read aloud the content of the alt attribute, allowing visually impaired users to understand the meaning of the image.

Users who rely on screen readers to navigate the web will benefit from descriptive alternative text.

### **SEO (Search Engine Optimization):**

Search engines use the alt attribute to understand the content of images.

Providing meaningful an relevant alternative text can contribute to better SEO by making your content more understandable for search engine algorithms.

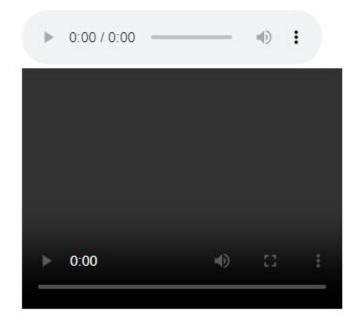
8) Write a program to load responsive image using picture element?

9) Write a program to load multimedia content into a webpage?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Multimedia Content Example</title>

(body>
 <h2>HTML5 Audio and Video</h2>
 <audio controls>
   <source src="audio.mp3" type="audio/mp3">
   Your browser does not support the audio tag.
 </audio>
 <br>
 <!-- Video -->
 <video width="320" height="240" controls>
   <source src="video.mp4" type="video/mp4">
   Your browser does not support the video tag.
</body>
</html>
```

### HTML5 Audio and Video



```
!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Video Header</title>
   <style>
       body {
           margin: 0;
           overflow: hidden;
       video {
           width: 100%;
           height: 100vh;
           object-fit: cover;
           position: fixed;
           top: 0;
           left: 0;
           z-index: -1;
       header {
           text-align: center;
           padding: 50px;
           color: #e70914;
           font-size: 2em;
           position: relative;
           z-index: 1;
   </style>
</head>
cbody>
   <video autoplay loop muted>
       <source src="time_circles_-_15086 (540p).mp4" type="video/mp4">
       Your browser does not support the video tag.
   </video>
   <header>
       <h1>Your Video Header</h1>
       counting....in reverse
   </header>
</body>
```



11) Write a program to embed youtube videos and google maps into a web page?

```
!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport"</pre>
          content="width=device-width, initial-scale=1.0">
    <title>Adding Youtube Video</title>
</head>
<body>
    <iframe height="480" width="500"</pre>
            src="https://www.youtube.com/embed/il_t1WVLNxk">
      </iframe>
    <h2>Google Maps Embed</h2>
    <iframe
src="https://www.google.com/maps/embed?pb=!1m14!1m12!1m3!1d124379.339555223!2d80.199679999
99999!3d13.0449408!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!5e0!3m2!1sen!2sin!4v17060816533
34!5m2!1sen!2sin" width="600" height="450" style="border:0;" allowfullscreen=""
loading="lazy" referrerpolicy="no-referrer-when-downgrade"></iframe>
</body>
</html>
```

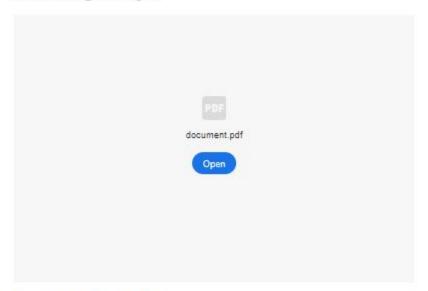


### Google Maps Embed

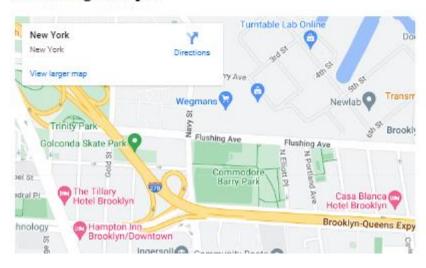


12) Differentiate between 'embed' and 'iframe' tag?

### **Embed Tag Example**



### Iframe Tag Example



13) How to create Audio tag in Html?

#### 14) What are several HTML5 Web APIs?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>HTML5 Web APIs</title>
body>
  <h2>HTML5 Web APIs</h2>
  <l
    <a href="https://developer.mozilla.org/en-US/docs/Web/API/Geolocation_API"</pre>
target="_blank">Geolocation API</a>
   <a href="https://developer.mozilla.org/en-US/docs/Web/API/Canvas_API"</pre>
target="_blank">Canvas API</a>
   <a href="https://developer.mozilla.org/en-US/docs/Web/API/Web_Storage_API"</pre>
target="_blank">Web Storage API</a>
    <a href="https://developer.mozilla.org/en-US/docs/Web/API/Web_Workers_API"</pre>
target="_blank">Web Workers API</a>
    <a href="https://developer.mozilla.org/en-US/docs/Web/API/Web_Audio_API"</pre>
target=" blank">Web Audio API</a>
    <a href="https://developer.mozilla.org/en-US/docs/Web/API/File_API"</li>
target="_blank">File API</a>
    <a href="https://developer.mozilla.org/en-US/docs/Web/API/IndexedDB_API"</pre>
target=" blank">IndexedDB API</a>
    <a href="https://developer.mozilla.org/en-US/docs/Web/API/Drag_and_Drop_API"</pre>
target="_blank">Drag and Drop API</a>
  </body>
</html>
```

## **HTML5 Web APIs**

- Geolocation API
- Canvas API
- Web Storage API
- Web Workers API
- Web Audio API
- File API
- IndexedDB API
- Drag and Drop API

### 15) Types of storage in HTML?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Types of Storage in HTML</title>
</head>
cbody>
 <h2>LocalStorage Example</h2>
 <button onclick="storeDataLocally()">Store Data Locally
 <h2>SessionStorage Example</h2>
 <button onclick="storeDataSession()">Store Data Session
 <h2>Cookies Example</h2>
 <button onclick="storeDataInCookie()">Store Data in Cookie</button>
 /body>
</html>
```

## LocalStorage Example

Store Data Locally

## SessionStorage Example

Store Data Session

## Cookies Example

Store Data in Cookie

16) Write a program to create Drag and Drop using HTML and JavaScript?

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Drag and Drop Example</title>
 <style>
   #dragElement {
     width: 100px;
     height: 100px;
     background-color: #4CAF50;
     color: white;
     text-align: center;
     line-height: 100px;
     cursor: move;
 </style>
(/head>
body>
 <div id="dragElement" draggable="true" ondragstart="drag(event)">Drag Me</div>
 <div id="dropTarget" ondrop="drop(event)" ondragover="allowDrop(event)">Drop Here</div>
</body>
</html>
```

Drag Me Drop Here

17) Write a program to create 'SVG' inline graphics?



18) Write a program to embed external SVG file in to html?

## Embedded SVG using <object>



19) Write a program to create a 'Canvas' graphics?

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Canvas Graphics</title>
<body>
    <h1>Canvas Graphics</h1>
    <canvas id="myCanvas" width="400" height="200" style="border:1px solid</pre>
#000;"></canvas>
    <script>
        var canvas = document.getElementById("myCanvas");
        if (canvas.getContext) {
            // Get the 2D rendering context
            var ctx = canvas.getContext("2d");
            // Draw a filled rectangle
            ctx.fillStyle = "green";
            ctx.fillRect(50, 50, 200, 100);
            ctx.beginPath();
            ctx.arc(300, 100, 30, 0, 2 * Math.PI, false);
            ctx.strokeStyle = "blue";
            ctx.lineWidth = 2;
            ctx.stroke();
    </script>
</body>
</html>
```

20) How to give information about the web page to the search engines?

21) Write a program to redirect automatically after 5 seconds into another website?

# Redirecting to Another Website

click here

This page will redirect to another website in 5 seconds...

- 22) How to load special characters into web page such
  - a) Dollar
  - b) Pound
  - c) Rupee
  - d) Ampersand
  - e) Copyright
  - f) Etc..

```
!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Special Characters</title>
</head>
body>
   <h1>Special Characters</h1>
   a) Dollar: $10.99
   b) Pound: £50.00
   c) Rupee: ₹200.00
   d) Ampersand: This is an & symbol
   e) Copyright: © 2024
   f) Etc.: … (ellipsis)
</body>
</html>
```

# Special Characters

a) Dollar: \$10.99

b) Pound: £50.00

c) Rupee: ₹200.00

d) Ampersand: This is an & symbol

e) Copyright: © 2024

f) Etc.: ... (ellipsis)