

Exp.no: 3.a

AIM: Write a HTML program, that makes use of <article>, <aside>, <figure> <figcaption> <footer>, <header>, <main>, <nav>, <section>, <div>, tags.

DESCRIPTION:

This HTML document is a demo webpage that showcases the use of HTML5 semantic elements such as

, , , , , , , and to structure a blog-style website.

1.DOCTYPE & Metadata

- <!DOCTYPE html> declares the document type as HTML5.
- <html lang="en"> specifies that the page is in English.
- <meta charset="UTF-8"> ensures the webpage supports special characters.
- <title> sets the title of the browser tab.

2.CSS Styling (<style>)

- Defines layout, background colors, fonts, and spacing.
- Uses flexbox in <main> to align article and aside side by side.
- Navigation links styled to look neat and user-friendly.

3.Header (<header>)

- Displays the blog's title: "My Blog Website".

4.Navigation (<nav>)

- Provides links to different sections: Home, Articles, Gallery, Contact.
- Styled with spacing and white text for readability.

5.Main Content (<main>)

- Divided into two parts:
- Article (<article>): Contains the main blog content.
- A heading: Understanding HTML5 Semantic Tags.
- A paragraph explaining semantic elements.
- Figure (<figure>): Contains an image with a caption (<figcaption>).
- Section (<section>): Explains Why Use Semantic Tags?
- Aside (<aside>): Sidebar with related posts (Introduction to HTML, CSS Basics, JavaScript).

6.Footer (<footer>)

- Displays copyright:

PROGRAM:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <title>HTML 5 Semantic elements demo</title>
```

```
<style>
```

```
  body {
```

```
    font-family: Arial, sans-serif;
```

```
    margin: 0;
```

```
  }
```

```
  header, nav, footer {
```

```
    background-color: #333;
```

```
    color: white;
```

```
    padding: 1em;
```

```
  }
```

```
  nav a {
```

```
    color: white;
```

```
    margin: 0 10px;
```

```
    text-decoration: none;
```

```
  }
```

```
  main {
```

```
    display: flex;
```

```
    padding: 20px;
```

```
  }
```

```
  article {
```

```
    flex: 3;
```

```
    padding: 20px;
```

```
    background-color: #f9f9f9;
```

```
  }
```

```
    aside {
        flex: 1;

        padding: 20px;

        background-color: #e0e0e0;
    }

    figure {
        margin: 0;

        text-align: center;
    }

    figcaption {
        font-style: italic;

        font-size: 0.9em;
    }

    footer{
        text-align: center;
    }

</style>
</head>
<body>

    <header>

        <h1>My Blog Website (24B11CS039)</h1>

    </header>

    <nav>

        <a href="#">Home</a>

        <a href="#">Articles</a>

        <a href="https://photos.google.com/?pli=1">Gallery</a>

        <a href="#">Contact</a>

    </nav>

    <main>

        <article>

            <h2> Understanding HTML 5 Semantic Tags </h2>
```

```

    <p> <span style="font-weight: bold;">HTML5</span>
    introduced semantic elements that make your code more readable and accessible.. </p>

<figure>

    <figcaption>Figure: Illustration of HTML5 layout </figcaption>

</figure>

<section>

    <h3>Why Use Semantics Tags?</h3>

    <p>Semantic tags help search engines and screen readers understand the structure of your
web page</p>

</section>

</article>

<aside>

    <h3>Related posts</h3>

    <ul>

        <li><a href="#">Introduction to HTML</a></li>

        <li><a href="#">CSS Basics</a></li>

        <li><a href="#">Java Script for Beginners</a></li>

    </ul>

</aside>

</main>

<footer>

    <p>&copy; 2025 My Blog. All rights reserved.</p>

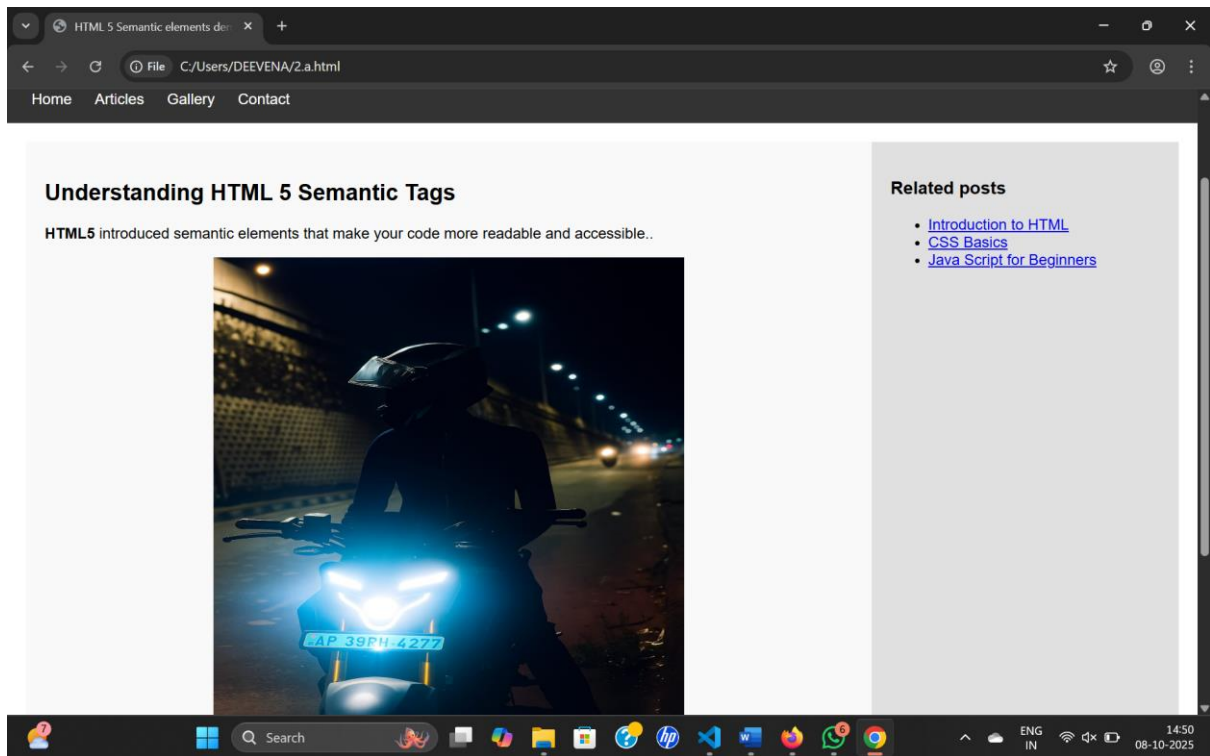
</footer>

</body>

</html>

```

OUTPUT:



RESULT:

Exp.no: 3.b

AIM: Write a HTML program, to embed audio and video into HTML web page.

DESCRIPTION:

This HTML page demonstrates how to embed audio and video files into a web page using the <audio> and <video> tags in HTML5.

1. Document Setup

- <!DOCTYPE html> declares HTML5 document type.
- <html lang="en"> specifies the language as English.
- <meta charset="UTF-8"> ensures correct character encoding.
- <title> sets the title of the webpage to "Audio and Video Embedding".

2. Page Content (<body>)

- Main Heading (<h1>): "Embedded Audio and Video in HTML".

3. Audio Section (<audio>)

- <audio controls> creates an audio player with built-in play, pause, volume controls.
- <source> elements specify different audio files (MP3 format in this case):
 - .mp3 file
 - .mp3 file
- If the browser cannot play audio, the fallback text "Your browser does not support the audio element." is shown.

4. Video Section (<video>)

- <video width="640" height="360" controls> creates a video player with playback controls and fixed size.
- <source> elements specify two video files (MP4 format):
 - .mp4 file
 - .mp4 file
- If the browser cannot play video, the fallback text "Your browser does not support the video element." is shown.

PROGRAM:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Audio and Video</title>

</head>

<body >

    <h1>Embedded audio and video in html (24B11CS039)</h1>

    <!-- Audio section -->

    <h2>Sample Audio</h2>

    <audio controls>

        <source src="c:\Users\DEEVENA\Downloads\ElevenLabs_2025-01-30T09_40_28_Brian_pre_s50_sb75_se0_b_m2.mp3" type="audio/mpeg">

        <source src="c:\Users\DEEVENA\Downloads\ElevenLabs_2025-01-30T09_40_28_Brian_pre_s50_sb75_se0_b_m2.mp3" type="audio/ogg">

        Your browser does not support the audio element.

    </audio >

    <!-- Video section -->

    <h2>Sample Video</h2>

    <video width="640" height="360" controls>

        <source src="c:\Users\DEEVENA\Downloads\ElevenLabs_2025-01-29T10_35_00_Daniel_pre_s50_sb75_se0_b_m2 (1).mp4" type="video/mp4">

        <source src="c:\Users\DEEVENA\Downloads\ElevenLabs_2025-01-29T10_35_00_Daniel_pre_s50_sb75_se0_b_m2 (1).mp4" type="video/webm">

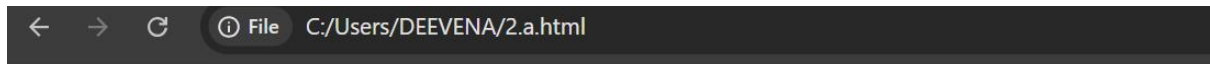
        Your browser does not support the video element.

    </video >

</body>

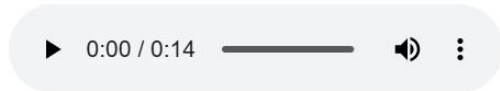
</html>
```

OUTPUT:

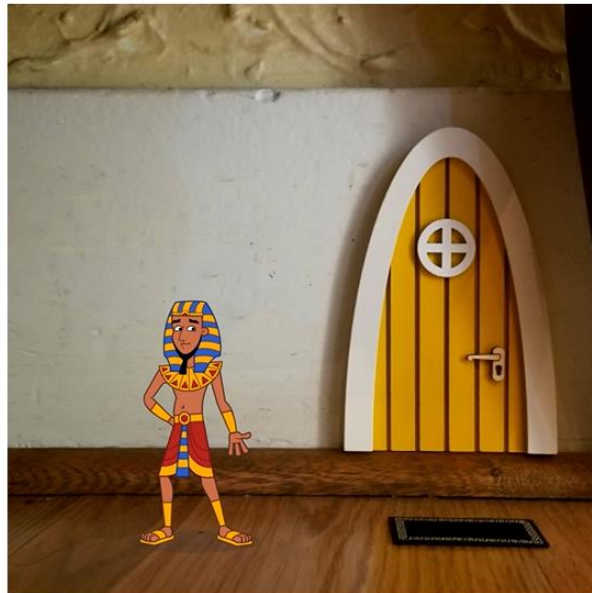


Embedded audio and video in html (24B11CS039)

Sample Audio



Sample Video



RESULT:

Exp.no: 3.c

AIM: Write a program to apply different types (or levels of styles or style specificatio formats) - inline, internal, external styles to HTML elements. (identify selecto property and value).

DESCRIPTION:

Inline CSS

- Styles are applied directly to individual HTML elements using the style attribute.
- Example: a heading can have its color and alignment defined inside the tag itself.
- Advantage: Quick and easy for small changes.
- Disadvantage: Not reusable, mixes design with content, harder to maintain.

Internal CSS

- Styles are written inside a <style> tag within the <head> section of the HTML document.
- These styles apply only to that particular web page.
- Advantage: Better separation of content and style than inline, good for single-page sites.
- Disadvantage: Cannot be reused across multiple pages.

External CSS

- Styles are stored in a separate .css file and linked to the HTML document using the <link> tag.
- Allows multiple web pages to share the same stylesheet.
- Advantage: Clean separation of structure (HTML) and design (CSS), reusable, easier maintenance, consistent styling across pages.
- Disadvantage: Requires an extra file (won't work if CSS file is missing or link breaks).

In short:

- Inline = one-time quick style
- Internal = page-level style
- External = project-wide reusable style

Program:

1) Inline Function

```
<html>
<body>
<h2>24B11CS002</h2>
<h1 style="color:blue;text-align:center;bgcolor:black;">This is a heading</h1>
<p style="color:red;">This is a paragraph.</p>
</body>
</html>
```

OUTPUT:

24B11CS039

This is a heading

This is a paragraph.

2) Internal function:

```
<html>
<head>
<style>
body {
    background-color:skyblue;
}
</style>
</head>
```

```
<body>
<h2>24B11CS039 </h2>
<h1 style="color:violet;text-align:center;"><strong>This is a heading</strong></h1>
<p style="color:yellow;font-size:30px;">This is a paragraph.</p>
</body>
</html>
```

OUTPUT:



3) External function

(External file)-{mystyle.css}

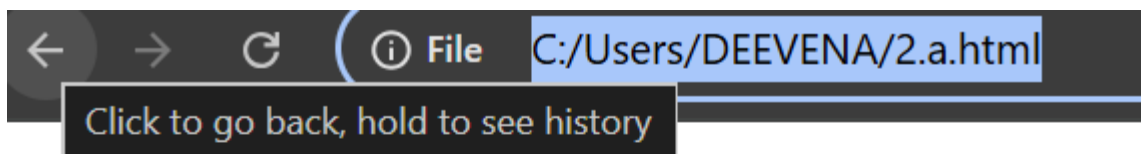
```
body{
    background-color:skyblue ;
}
h1
{
    color:orange;font-size:40px;
    text-align:center;
}
```

Actual Program:

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" type="text/css" href="mystyle.css">
```

```
</head>
<body>
<h2>24B11CS039</h2>
<h1>This is a heading</h1>
<p>This is a paragraph.</p>
</body>
</html>
```

OUTPUT:



24B11CS039

This is a heading

This is a paragraph.

RESULT: