

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 (24B11CS250)</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>
        <img src= "C:\Users\krish\Pictures\dodge car.jpg" height=500
        width=800>
        <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:

Understanding HTML 5 Semantic Tags

HTML5 introduced semantic elements that make your code more readable and accessible..



Figure: Illustration of HTML5 layout

Why Use Semantics Tags?

Semantic tags help search engines and screen readers understand the structure of your web page

Related posts

- [Introduction to HTML](#)
- [CSS Basics](#)
- [Java Script for Beginners](#)

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

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

2. Page Content (<body>)

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

3. Audio Section (<audio>)

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

4. Video Section (<video>)

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

PROGRAM:

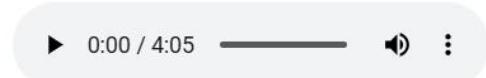
```
<!DOCTYPE html>

<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Audio and Video</title>
</head>
<body >
    <h1>Embedded audio and video in html (24B11CS250)</h1>
    <!-- Audio section -->
    <h2>Sample Audio</h2>
    <audio controls>
        <source src="C:\Users\krish\Downloads\Fire Storm.mp3" type="audio/mpeg">
        <source src="C:\Users\krish\Downloads\Fire Storm.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\krish\Downloads\Fire Storm.mp3" type="audio/mpeg">
        <source src="C:\Users\krish\Downloads\Fire Storm.mp3" type="audio/ogg">
        Your browser does not support the video element.
    </video >
</body>
</html>
```

OUTPUT:

Embedded audio and video in html (24B11CS250)

Sample Audio



Sample Video



RESULT:

Exp.no: 3.c

AIM: Write a program to apply different types (or levels of styles or style specifications) - inline, internal, external styles to HTML elements. (identify selector 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>24B11CS250</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:

24B11CS250

This is a heading

This is a paragraph.

2) Internal function

```
<html>
<head>
<style>
body {
    background-color:yellow;
}
</style>
</head>
<body>
<h2>24B11CS250</h2>
<h1 style="color:blue;text-align:center;"><strong>This is a heading</strong></h1>
<p style="color:red;font-size:30px;">This is a paragraph.</p>
</body>
```

</html>

OUTPUT:

24B11CS250

This is a heading

This is a paragraph.