

## Experiment 2

### 2. Program on HTML basic tags to handle multimedia elements on web page.

#### 1. Basic HTML Structure

- The document starts with `<!DOCTYPE html>` to declare the HTML version.
- The `<html>` tag defines the document as an HTML file, and the `lang="en"` attribute specifies the language as English.
- Inside the `<head>` section, the document specifies the character encoding with `<meta charset="UTF-8">` and sets the viewport for responsiveness with `<meta name="viewport" content="width=device-width, initial-scale=1.0">`.
- The `<title>` tag defines the title of the webpage (which will appear in the browser tab).

#### 2. Multimedia Elements

##### *Image Embedding (<img>)*

- **Section:** `<h2>Image Example</h2>` creates a section titled "Image Example."
- **Image Tag:** `<img>` embeds an image into the HTML page.
  - `src="Image.jpeg"` specifies the path to the image file (in this case, "Image.jpeg").
  - `alt="Sample Image"` provides alternative text for screen readers or if the image doesn't load.
  - `width="500"` and `height="300"` define the size of the image in pixels.
- **Description:** A short description is added using a `<p>` tag.

##### *Audio Embedding (<audio>)*

- **Section:** `<h2>Audio Example</h2>` introduces the "Audio Example" section.
- **Audio Tag:** `<audio controls>` embeds an audio file with built-in browser controls (play, pause, volume).
  - Inside the `<audio>` tag, a `<source>` tag is used to specify the audio file:
    - `src="Audio.mp3"` is the path to the audio file.
    - `type="audio/mpeg"` specifies the format of the audio file (MPEG in this case).
  - If the browser doesn't support the audio element, the message "Your browser does not support the audio element." will be displayed.

- **Description:** A short description is provided using a `<p>` tag.

### ***Video Embedding (<video>)***

- **Section:** `<h2>Video Example</h2>` introduces the "Video Example" section.
- **Video Tag:** `<video>` is used to embed a video with width and height specified (500x300 pixels) and controls enabled.
  - The `<source>` tag specifies the video file:
    - `src="Video.mp4"` points to the video file.
    - `type="video/mp4"` defines the video format (MP4).
  - If the browser doesn't support the video element, the message "Your browser does not support the video tag." will be displayed.
- **Description:** A brief description follows in a `<p>` tag.

### ***Embedding a YouTube Video (<iframe>)***

- **Section:** `<h2>YouTube Video Example</h2>` introduces the "YouTube Video Example" section.
- **Iframe Tag:** `<iframe>` is used to embed a YouTube video from the provided URL.
  - `width="560"` and `height="315"` define the size of the embedded video.
  - `src="https://youtu.be/_JP0fl3S1uU?feature=shared"` is the link to the YouTube video.
  - `frameborder="0"` removes the border around the video.
  - `allow="autoplay; encrypted-media"` allows the video to autoplay and ensures encrypted media can be used.
  - `allowfullscreen` allows the video to be played in fullscreen mode.
- **Description:** A brief description follows in a `<p>` tag.

### **Steps to Create this HTML Page:**

1. **Open a text editor** (e.g., Notepad, Sublime Text, VS Code).
2. **Create the HTML structure** as shown in your example.
3. Add the multimedia elements like:
  - a. An image using `<img>` with `src` pointing to the image file.
  - b. An audio element using `<audio>` with controls and a valid audio file.
  - c. A video element using `<video>` with controls and a valid video file.
  - d. Embed a YouTube video using `<iframe>` with the YouTube video link.
4. Save the file with a **.html extension** (e.g., multimedia\_example.html).

5. **Open the saved HTML file** in a web browser to view the embedded multimedia content.


## Output:

Google Classroom - Login x List of Experiments x ChatGPT x Experiment 1.docx - Micro x Experiment 2 x Document x

127.0.0.1:5500/Ass2/index.html

### Handling Multimedia Elements in HTML

#### Image Example



Description: This is an example image.

#### Audio Example

0:08 / 4:47

Description: Listen to the audio example.

#### Video Example

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Search

Google Classroom - Login x List of Experiments x ChatGPT x Experiment 1.docx - Micro x Experiment 2 x Document x

127.0.0.1:5500/Ass2/index.html

Description: Listen to the audio example.

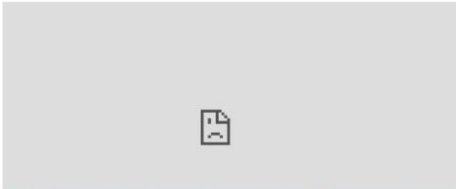
#### Video Example



0:44 / 1:02

Description: Watch the video example.

#### YouTube Video Example



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