

Practical No. 7B – Common to All Batches

To design and develop web pages using HTML Multimedia elements.

Problem Statement 1:

Design a HTML web page that contain audio players. Access it locally and in LAN using a web server.

The page should satisfy following requirements:

1. The page should have four sections: Audio Player Name, Navigation Links, Audio Players, Credits.
2. In the audio player name section, write name of the audio player of your choice.
3. In the navigation links section, add one link to audio streaming website and one link to lyrics website.
4. In the audio player section, add different audio players.
5. In the credits' sections, write the credits of any audio that you are going to embed.

The page should have at least following elements:

1. In the audio player name section use appropriate heading elements.
2. In the navigation links section, add links to video player page, YouTube player page and external resource page (needs to be created separately in the Problem Statement 2, 3 and 4).
3. In the audio players section,
 - a. Use **<audio>** element for one player with its controls, autoplay and loop enabled.
 - b. Use **<audio>** element for another element with controls disabled, and mute and autoplay enabled.
 - c. Use **<audio>** element with **<source>** element with at least two sources (one local and other stream) and different types of media such as mp3, ogg, etc.
 - d. Use **<audio>** element without **<source>** element, but with **<track>** element with its attributes to display the subtitles (lyrics).
4. In the credits section, display credits of any one audio such as movie name, song name, singer names, musician names, etc.
5. Use **<header>**, **<section>** and **<footer>** elements.
6. **Use other HTML formatting and semantic tags as needed.**
7. **Use any other functionality as per your convenience.**

Problem Statement 2:

Design a HTML web page that contain video players. Access it locally and in LAN using a web server.

The page should satisfy following requirements:

1. The page should have four sections: Video Player Name, Navigation Links, Video Players, Credits.
2. In the video player name section, write name of the video player of your choice.
3. In the navigation links section, add one link to music video streaming website and one link to lyrics website.
4. In the video player section, add different video players.
5. In the credits' sections, write the credits of any video that you are going to embed.

The page should have at least following elements:

1. In the video player name section use appropriate heading elements.
2. In the navigation links section, add links to audio player page, YouTube player page and external resource page (needs to be created separately in the Problem Statement 1, 3 and 4).
3. In the video players section,
 - a. Use **<video>** element for one player with its controls, autoplay and loop enabled.
 - b. Use **<video>** element for another element with controls disabled, and mute and autoplay enabled.
 - c. Use **<video>** element with **<source>** element with at least two sources (one local and other stream) and different types of media such as mp4, ogg, etc.
 - d. Use **<video>** element without **<source>** element, but with **<track>** element with its attributes to display the subtitles (lyrics).
4. In the credits section, display credits of any one video such as movie name, song name, singer names, musician names, etc.
5. Use **<header>**, **<section>** and **<footer>** elements.
6. **Use other HTML formatting and semantic tags as needed.**
7. **Use any other functionality as per your convenience.**

Problem Statement 3:

Design a HTML web page that contain YouTube videos. Access it locally and in LAN using a web server.

The page should satisfy following requirements:

1. The page should have four sections: Header, Navigation Links, YouTube Players, and Credits.
2. In the header section, write header name of your choice.
3. In the navigation links section, add one link to music video streaming website and one link to lyrics website.
4. In the YouTube player section, embed different YouTube videos.
5. In the credits' sections, write the credits of any video that you are going to embed.

The page should have at least following elements:

1. In the header section use appropriate heading elements.
2. In the navigation links section, add links to audio player page, video player page and external resource page (needs to be created separately in the Problem Statement 1, 2 and 4).
3. In the YouTube players section,
 - a. Use **<iframe>** element for one player with its controls, autoplay and loop enabled with default *height* and *width* of the player.
 - b. Use **<iframe>** element for another player with controls disabled, and mute and autoplay enabled with different *height* and *width* of the player.
 - c. Use **<iframe>** element for another element with controls disabled, and mute and autoplay disabled with different *height* and *width* of the player.
 - d. Use **<iframe>** element with **<track>** element with its attributes to display the subtitles (lyrics).
 - e. Use **<embed>** element to embed a YouTube video.
4. In the credits section, display credits of any one YouTube video such as movie name, song name, artists names, musician names, label, etc.
5. Use **<header>**, **<section>** and **<footer>** elements.
6. **Use other HTML formatting and semantic tags as needed.**
7. **Use any other functionality as per your convenience.**

Problem Statement 4:

Design a HTML web page that has external resources embedded. Access it locally and in LAN using a web server.

The page should satisfy following requirements:

1. The page should have four sections: Header, Navigation Links, External Resources and developer's information.
2. In the header section, write header name of your choice.
3. In the external resources section, embed .pdf file and HTML page separately.
4. In the footer, write developers information.

The page should have at least following elements:

1. Use heading elements to name different sections.
2. In the navigation links section, add links to audio player page, video player page and YouTube player page (needs to be created separately in the Problem Statement 1, 2 and 3).
3. Use **<object>** and **<embed>** elements for embedding external resources.
4. Use **<header>**, **<section>** and **<footer>** elements.
5. **Use other HTML formatting and semantic tags as needed.**
6. **Use any other functionality as per your convenience.**

Link all the pages using anchor element.

Every student must have uniqueness in his/her web pages in terms of elements, attributes, source files, etc.

Note:

1. Take screenshots of your hands-on session (web page screen shots).
2. **Create a pdf file** of screenshots with **"ExamSeatNum_P#PS#"** as its name.
3. **Zip** the file with **"ExamSeatNum_P#"** as its name.
4. Upload the file on the **WCE Moodle** before the given deadline.
5. Upload the files on **GitHub's (or any other) Public Repository** using your account and add link in the document to be uploaded on the **WCE Moodle**.