

Subject : Information Technology

Standard : 12th Science.

Chapter No. 1 : Advanced Web Designing.

Topic Name : Inserting Audio and Video in HTML5.

❖ <Audio> Tag :

- The <audio> element enables you to embed (or add) audio files on Webpages.
- Declare the audio tag, and specify the source attributes with the Audio file location.
- Syntax :

```
<audio src="sample.mp3" type="audio/mpeg" controls>  
</audio>
```

❖ **HTML5 Audio - How It Works :**

- The controls attribute adds audio controls, like play, pause, and volume.
- The <source> element allows you to specify alternative audio files which the browser may choose from. The browser will use the first recognized format.
- The text between the <audio> and </audio> tags will only be displayed in browsers that do not support the <audio> element.

❖ Attributes of <audio>tag :

Attribute	Value	Description
<u>autoplay</u>	autoplay	Specifies that the audio will start playing as soon as it is ready
<u>controls</u>	controls	Specifies that audio controls should be displayed (such as a play/pause button etc)
<u>loop</u>	loop	Specifies that the audio will start over again, every time it is finished
<u>muted</u>	muted	Specifies that the audio output should be muted
<u>preload</u>	auto metadata none	Specifies if and how the author thinks the audio should be loaded when the page loads
<u>src</u>	URL	Specifies the URL of the audio file

❖ HTML Audio - Media Types :

File Format	Media Type
MP3	audio/mpeg
OGG	audio/ogg
WAV	audio/wav

❖ **<video> Tag :**

- The HTML <video> tag is used to embed video into your web page, it has several video sources.
- There are three different formats that are commonly supported by web browsers - .mp4, .Ogg and .WebM.
- Syntax :
 <video src="URL" controls>
 </video>

❖ Attributes of <video> tag :

Attributes	Values	Description
Src	URL	Defines link to video file.
Autoplay	-	Specifies that the video will start playing as soon as it is ready.
Controls	-	Specifies that video controls should be displayed (such as a play / pause button etc).
Height	Pixels	Sets the height of the video player.
Loop	Value	Specifies that the video will start over again, every time it is finished.
Muted	-	Specifies that the audio output of the video should be muted.

❖ Attributes of <video> tag :

Attributes	Values	Description
Poster	URL	Specifies an image to be shown while the video is downloading, or until the user hits the play button.
Preload	1. Auto 2. Metadata 3. None	Specifies if and how the author thinks the video should be loaded when the webpage loads.
Width	Pixels	Sets the width of the video player.

❖ **HTML5 Audio - How It Works :**

- The controls attribute adds video controls, like play, pause, and volume.
- It is a good idea to always include width and height attributes. If height and width are not set, the page might flicker while the video loads.
- The <source> element allows you to specify alternative video files which the browser may choose from. The browser will use the first recognized format.
- The text between the <video> and </video> tags will only be displayed in browsers that do not support the <video> element.

THANK YOU.
