ABES Engineering College
College Code-032

HTML: Frames

Frames

- HTML frames divide the browser window into multiple sections where each section can load a separate HTML document.
- A collection of frames in the browser window is known as a frameset.
- The window is divided into frames in a similar way the tables are organized: into rows and columns.
- A <frame> tag is used with <frameset>

Frames

Attribute	Value	Description
cols	Pixels % *	It specifies the number and size of column spaces in the frameset.
rows	Pixels % *	It specifies the number and size of the rows spaces in the frameset.

Frames Attribute

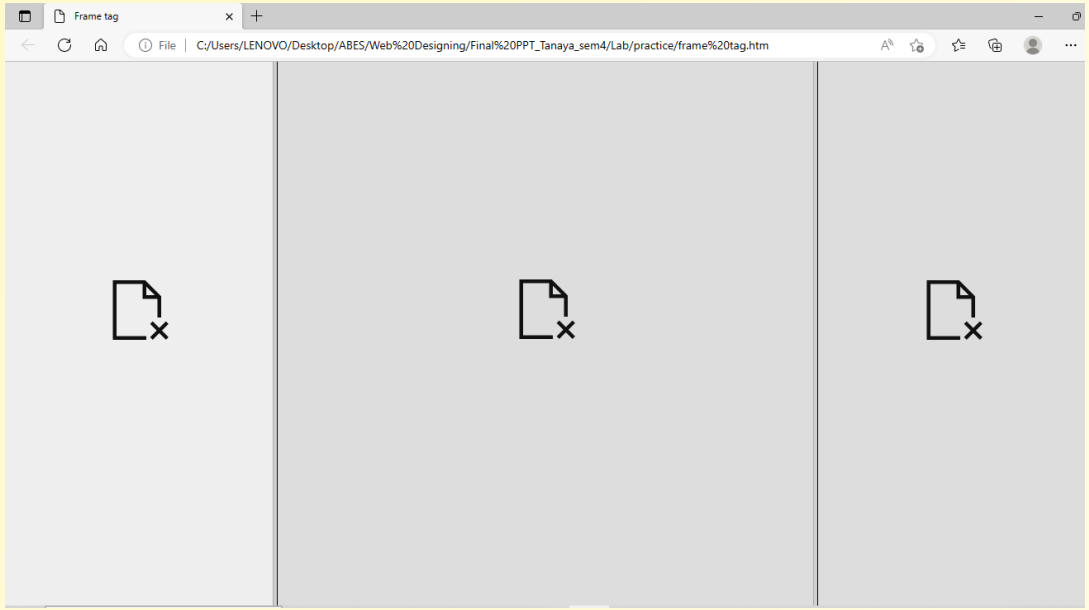
COLS,ROWS

- a comma-separated list of pixel values, percentages values
- Frameset entries should always specify at least two rows or columns

```
<frameset rows="50,10%">
  . . . . . .
</frameset>
```

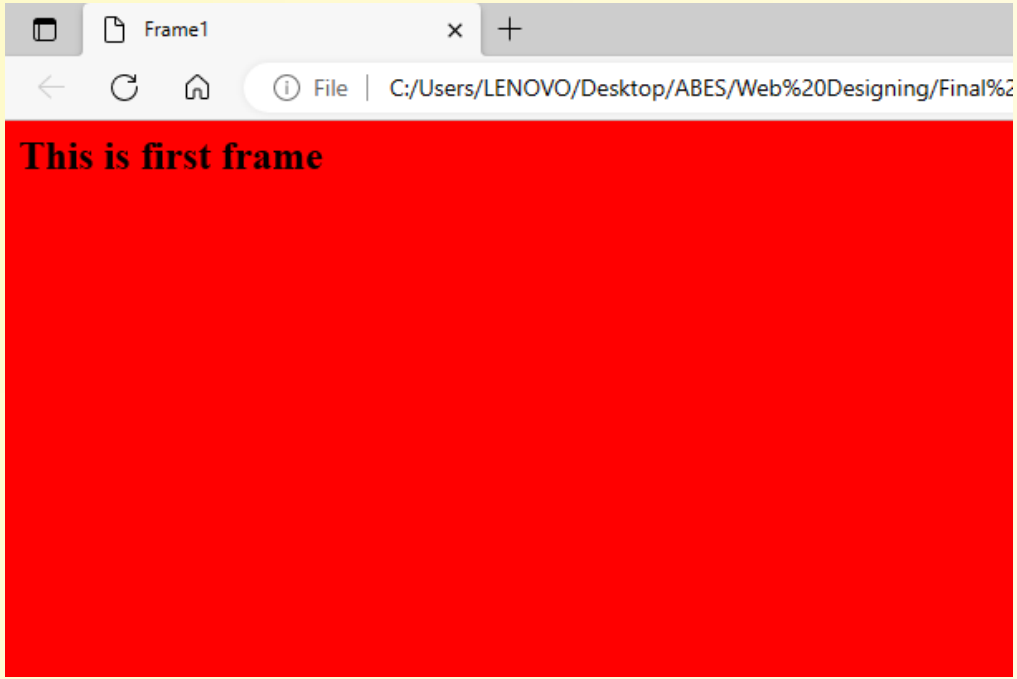
Frames


```
<html>
<head>
   <title>Frame tag</title>
</head>
      <frameset cols="25%,50%,25%">
            <frame src="frame1.html" >
            <frame src="frame2.html">
            <frame src="frame3.html">
      </frameset>
</html>
```



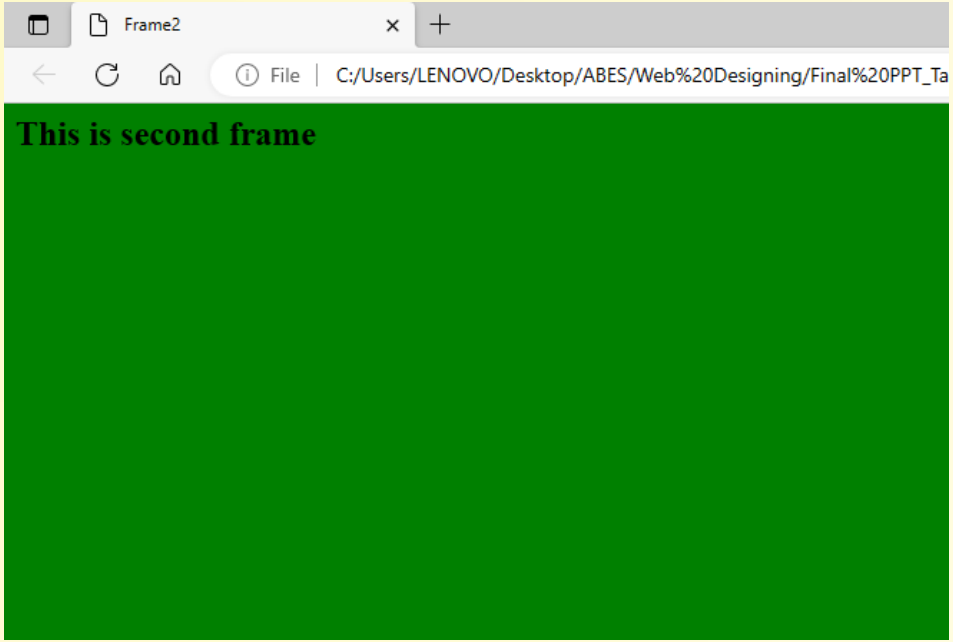
Frames- Frame1.html


```
<html>
<head>
  <title>Frame1</title>
</head>
<body bgcolor="red">

      <h2>This is first frame</h2>

 </body>
</html>
```



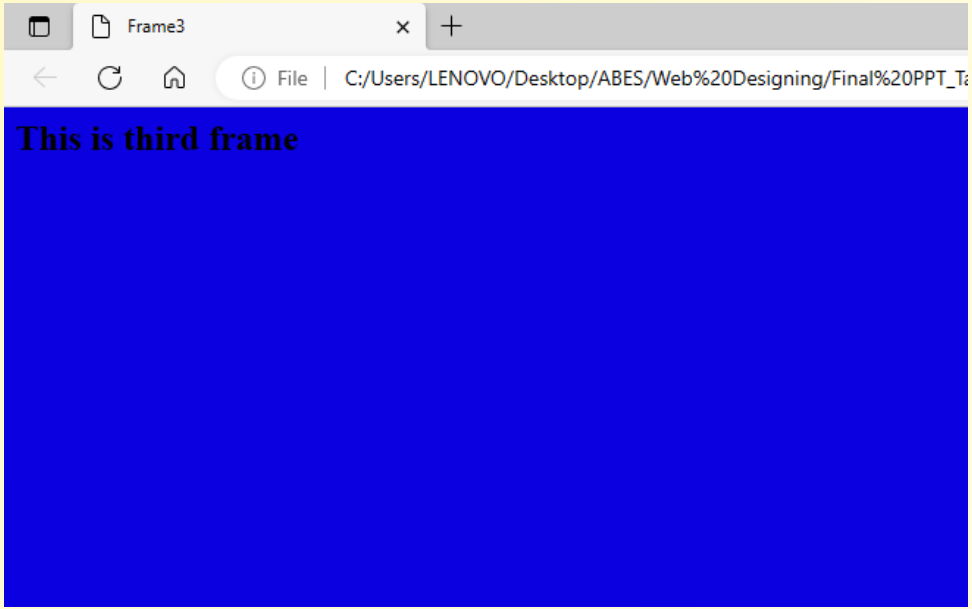
Frames- Frame2.html


```
<html>
<head>
  <title>Frame2</title>
</head>
<body bgcolor="green">

      <h2>This is second frame</h2>

 </body>
</html>
```



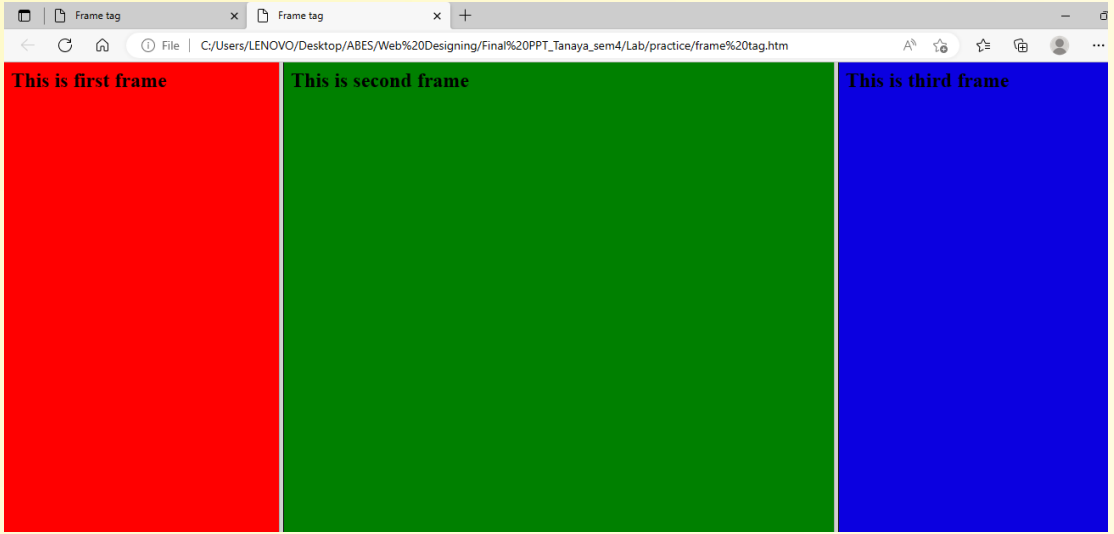
Frames- Frame3.html


```
<html>
<head>
  <title>Frame3</title>
</head>
<body bgcolor="yellow">

      <h2>This is third frame</h2>

 </body>
</html>
```



Frames


```
<html>
<head>
   <title>Frame tag</title>
</head>
      <frameset cols="25%,50%,25%">
            <frame src="frame1.html" >
            <frame src="frame2.html">
            <frame src="frame3.html">
      </frameset>
</html>
```



Frames- Frame3.html

```
<html>
<head>
   <title>Frame tag</title>
</head>
 <frameset rows="30%, 40%, 30%">
        <frame name="top" src="frame1.html" >
        <frame name="main" src="frame2.html">
        <frame name="bottom" src="frame3.html">
 </frameset>
</html>
```

Frames

Frame tag: ..\Lab\practice\frame tag.htm

Frame 1: ..\Lab\practice\frame1.html

Frame 2: ..\Lab\practice\frame2.html

Frame 3: ..\Lab\practice\frame3.html

Horizontal frame: ..\Lab\practice\hor frame.html

Frame Attributes

Attribute	Value	Description
frameborder	0 1	It specifies whether to display a border around the frame or not, and its default value is 1
longdsec	URL	It specifies a page which contains the long description of the content of the frame.
marginheight	pixels	It specifies the top and bottom margins of the frame.
marginwidth	pixels	It defines the height of the margin between frames.
name	text	It is used to assign the name to the frame.
noresize	noresize	It is used to prevent resizing of the frame by the user.
scrolling	yes no auto	It specifies the existence of the scrollbar for overflowing content.
src	URL	It specifies the URL of the document which we want to display in a frame.

Using src attribute

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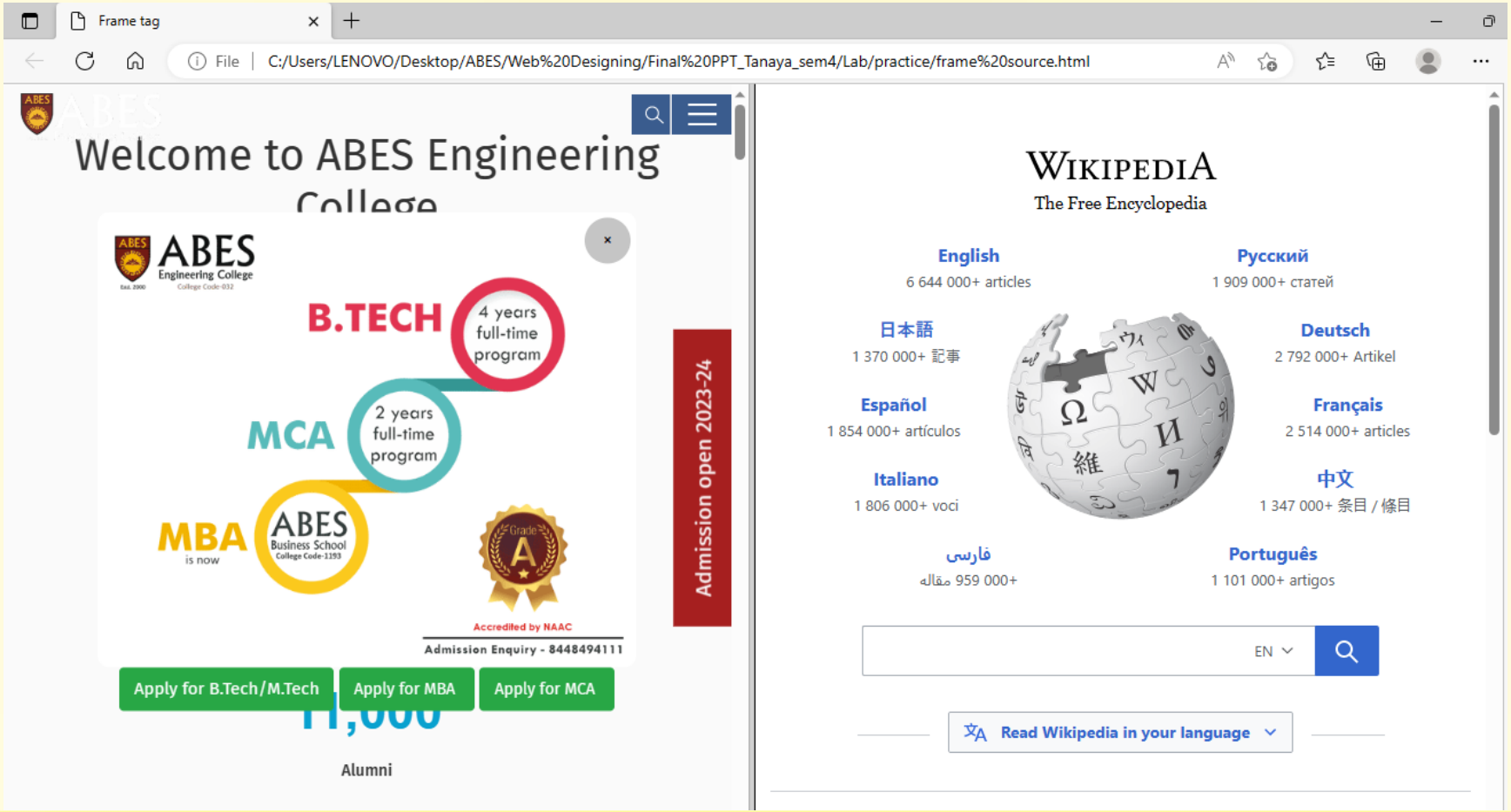
```
<html>
<head>
   <title>Frame tag</title>
</head>
 <frameset cols="50%,50%">
        <frame  src="https://www.abes.ac.in">
        <frame  src="https://www.wikipedia.com">
  </frameset>
</html>
```

Using src attribute



Using src attribute

Frame Source

..\Lab\practice\frame source.html

iframes

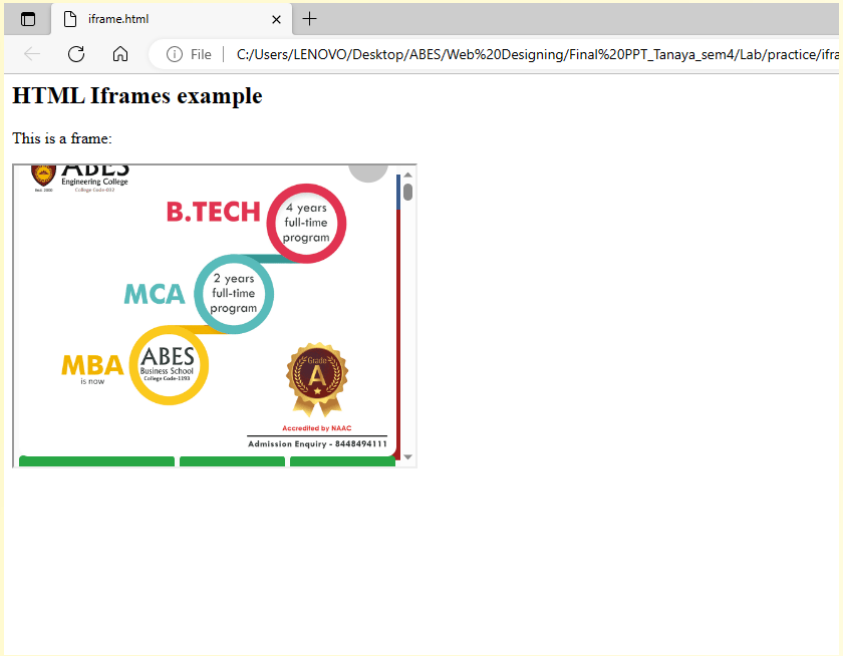
- used to display a nested webpage (a webpage within a webpage).
- The HTML <iframe> tag defines an inline frame, hence it is also called as an Inline frame or Floating frame
- It embeds another document within the current HTML document in the rectangular region.

```
<iframe src="URL"></iframe>
```

  - Here, "src" attribute specifies the web address (URL) of the inline frame page.

Iframes – Height and Width

```
<html>
<body>
    <h2>HTML Iframes example</h2>
    <p>This is a frame:</p>
        <iframe src="https://www.abes.ac.in/"
        height="300" width="400"></iframe>
</body>
</html>
```

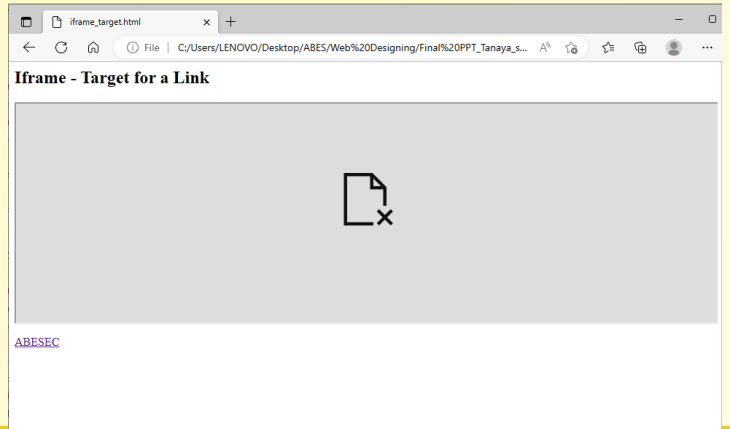


Iframes target for the link

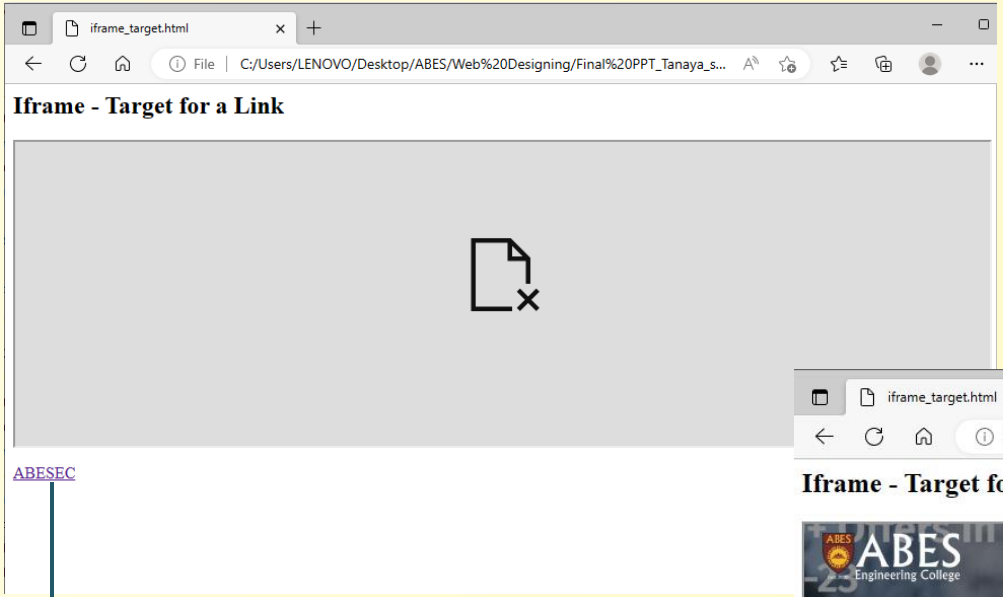
- You can set a target frame for a link by using iframe.
- Your specified target attribute of the link must refer to the name attribute of the iframe.
- The target attribute specifies where the linked page will be opened.
- The target="framename" value opens the linked page in the named frame.

Iframes target for the link

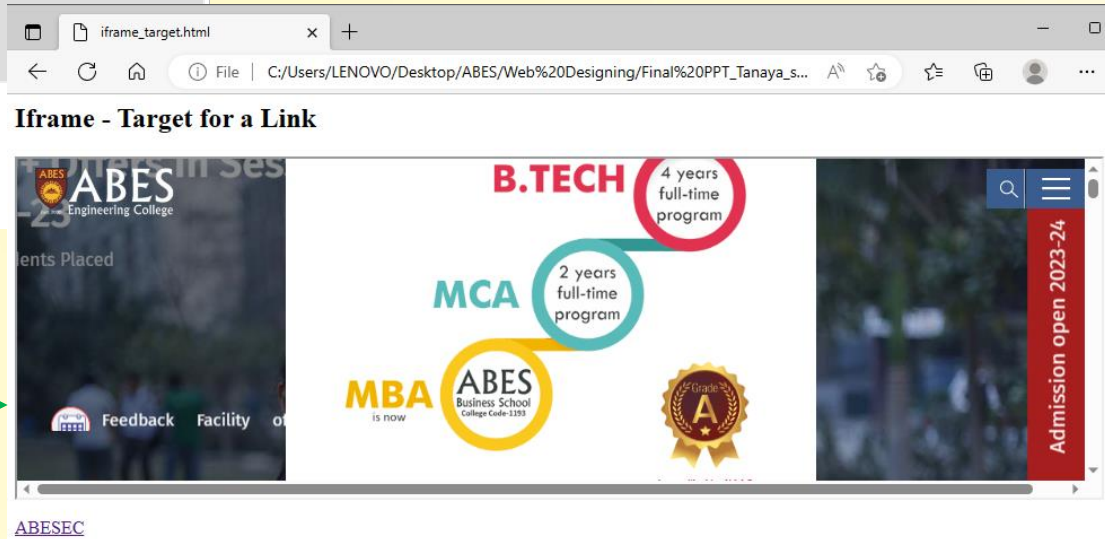
```
<html>
<body>
  <h2>Iframe - Target for a Link</h2>
      <iframe height="300px" width="100%" src="new.html" name="iframe_a">
      </iframe>
          <p><a href="https://www.abes.ac.in/" target="iframe_a"> ABESEC</a> </p>


</body>
</html>
```



Iframes target for the link



On clicking the link,
the output is....



Iframe Attributes

Attribute name	Value	Description
allowfullscreen		If true then that frame can be opened in full screen.
height	Pixels	It defines the height of the embedded iframe, and the default height is 150 px.
name	text	It gives the name to the iframe. The name attribute is important if you want to create a link in one frame.
frameborder	1 or 0	It defines whether iframe should have a border or not. (Not supported in HTML5).
Width	Pixels	It defines the width of embedded frame, and default width is 300 px.
src	URL	The src attribute is used to give the path name or file name which content to be loaded into iframe.
srcdoc		The srcdoc attribute is used to show the HTML content in the inline iframe. It overrides the src attribute (if a browser supports).
scrolling		It indicates that browser should provide a scroll bar for the iframe or not. (Not supported in HTML5)
	auto	Scrollbar only shows if the content of iframe is larger than its dimensions.
	yes	Always shows scroll bar for the iframe.
	no	Never shows scrollbar for the iframe.

Embed YouTube video using iframe

- Goto YouTube video which you want to embed.
- Click on SHARE ➦ under the video.
- Click on Embed <> option.
- Copy HTML code.
- Paste the code in your HTML file
- Change height, width, and other properties (as per requirement).

Embed YouTube video using iframe

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Embed YouTube video using iframe

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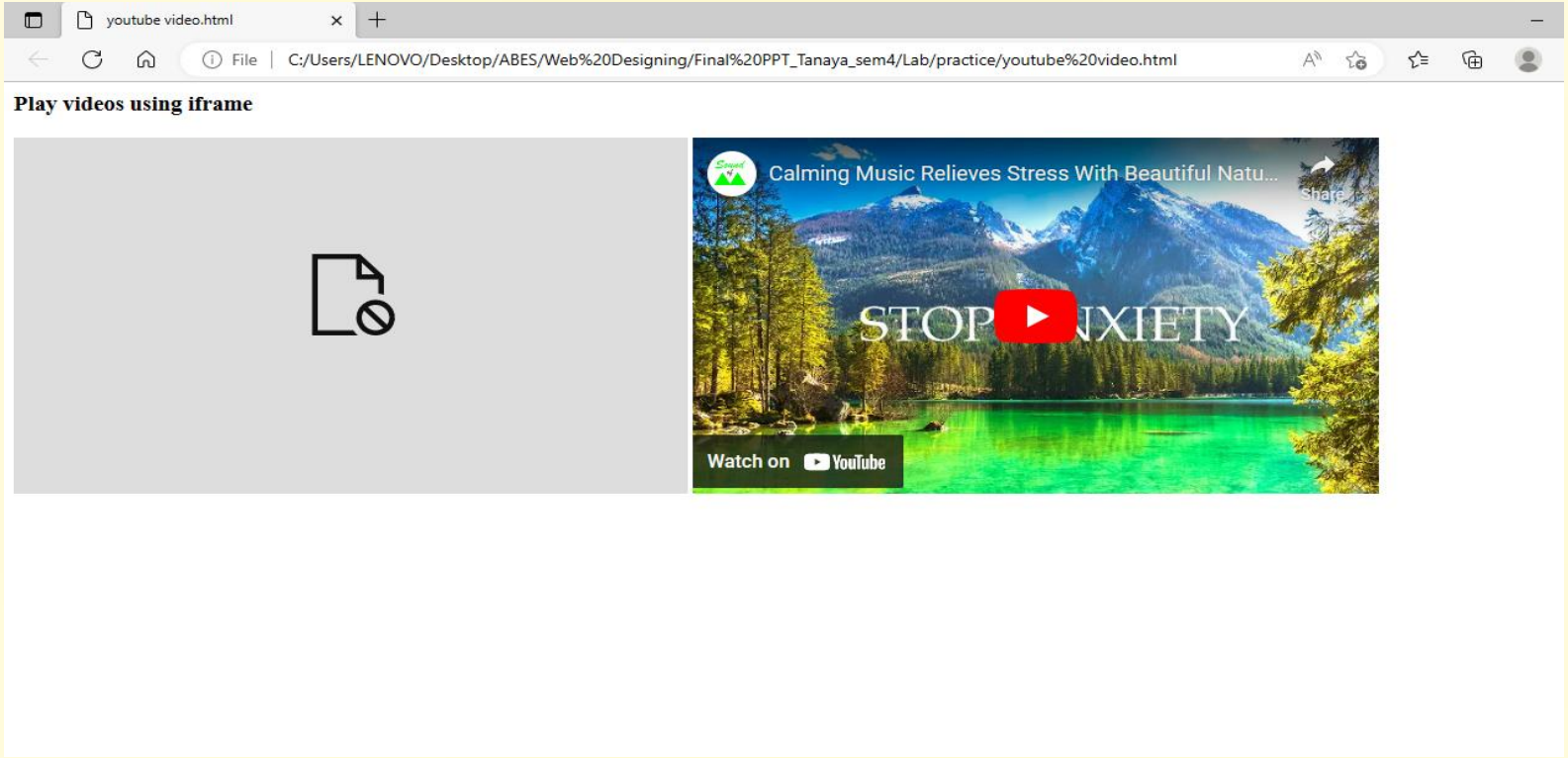
```
<html>
 <head> </head>
 <body >
    <h3>Play videos using iframe</h3>

      <iframe width="550" height="315" src="https://www.youtube.com/watch?v=E7RoLhIWm5o"
      frameborder="0", autoplay> </iframe>

      <iframe width="560" height="315" src="https://www.youtube.com/embed/E7RoLhIWm5o"
      title="YouTube video player" frameborder="0", autoplay; encrypted-media; gyroscope;
      picture-in-picture; allowfullscreen>  </iframe>

  </body>
 </html>
```

Embed YouTube video using iframe



..\Lab\practice\youtube video.html

HTML: Audio/Video

Audio tag

- HTML audio tag is used to define sounds such as music and other audio clips.
- The <audio> tag contains one or more <source> tags with different audio sources.
- three supported file format for audio tag.
  - mp3
  - wav
  - ogg

Audio tag

Browser	mp3	wav	ogg
Internet Explorer	yes	no	no
Google Chrome	yes	yes	yes
Mozilla Firefox	yes*	yes	yes
Opera	no	yes	yes
Apple Safari	yes	yes	no

Audio tag


```
<audio controls>
    <source src="koyal.mp3" type="audio/mpeg">
  Your browser does not support the html audio tag.
</audio>
```

Audio tag - Attributes

Attribute	Description
controls	It defines the audio controls which is displayed with play/pause buttons.
autoplay	It specifies that the audio will start playing as soon as it is ready.
loop	It specifies that the audio file will start over again, every time when it is completed.
muted	It is used to mute the audio output.
preload	It specifies the author view to upload audio file when the page loads.
src	It specifies the source URL of the audio file.

Audio tag - Attributes


```
<audio controls autoplay loop>
        <source src="koyal.mp3" type="audio/mpeg">
</audio>
```

Video tag

- The HTML video tag is used for streaming video files such as a movie clip, song clip on the web page.
- The <video> tag contains one or more <source> tags with different video sources.
- there are three video formats supported for HTML video tag:
  - mp4
  - webM
  - ogg

Video tag

Browser	mp4	webM	ogg
Internet Explorer	yes	no	no
Google Chrome	yes	yes	yes
Mozilla Firefox	yes	yes	yes
Opera	no	yes	yes
Apple Safari	yes	no	no

Video tag


```
<video controls>
    <source src="movie.mp4" type="video/mp4">
    Your browser does not support the html video tag.
</video>
```

Video tag - Attributes

Attribute	Description
controls	It defines the video controls which is displayed with play/pause buttons.
height	It is used to set the height of the video player.
width	It is used to set the width of the video player.
poster	It specifies the image which is displayed on the screen when the video is not played.
autoplay	It specifies that the video will start playing as soon as it is ready.
loop	It specifies that the video file will start over again, every time when it is completed.
muted	It is used to mute the video output.
preload	It specifies the author view to upload video file when the page loads.
src	It specifies the source URL of the video file.

Video tag - Attributes


```
<video width="320" height="240" controls autoplay loop>
    <source src="movie.mp4" type="video/mp4">
    Your browser does not support the html video tag.
</video>
```

Thank You