

Html 5 assignment

1. what are the new tags added in HTML5?

There are different html new tag given below:

1.Semantic elements: These elements give more meaning to the web page, which makes it simple for browsers to understand and process the web page. Semantic tags like:

This elements are new elements which is very mean to browser and browser can understand easily.

- `<article>`: This tag is describe his own properties from himself. Like news article.
- `<aside>`: content that is for to the main content of the page, such as a sidebar.
- `<details>`: content that collapsed by the user
- `<figcaption>`: Provides a caption for a `<figure>` tags
- `<figure>`: a self-contained unit of content, like an image, video, and quote.
- `<footer>`: this is for footer that means last part of webpage.footer part of a web.
- `<header>`: this s for head means first upper part of webpage. header part of a web.
- `<main>`: this is for main part which is describe in middle part of webpage . main part area of a web.

2 Media elements: this are the important media tags that is included and part of modern html 5.

Media elements like:

- `<audio>`: this is for input audio from different sources .Embeds an audio file on a web .
- `<canvas>`: this is for graphics from different sources for js.
- `<video>`: this is for input video in webpage. Embeds a video file on a web output .

3. Form elements: this is for create and show some form details from the user.

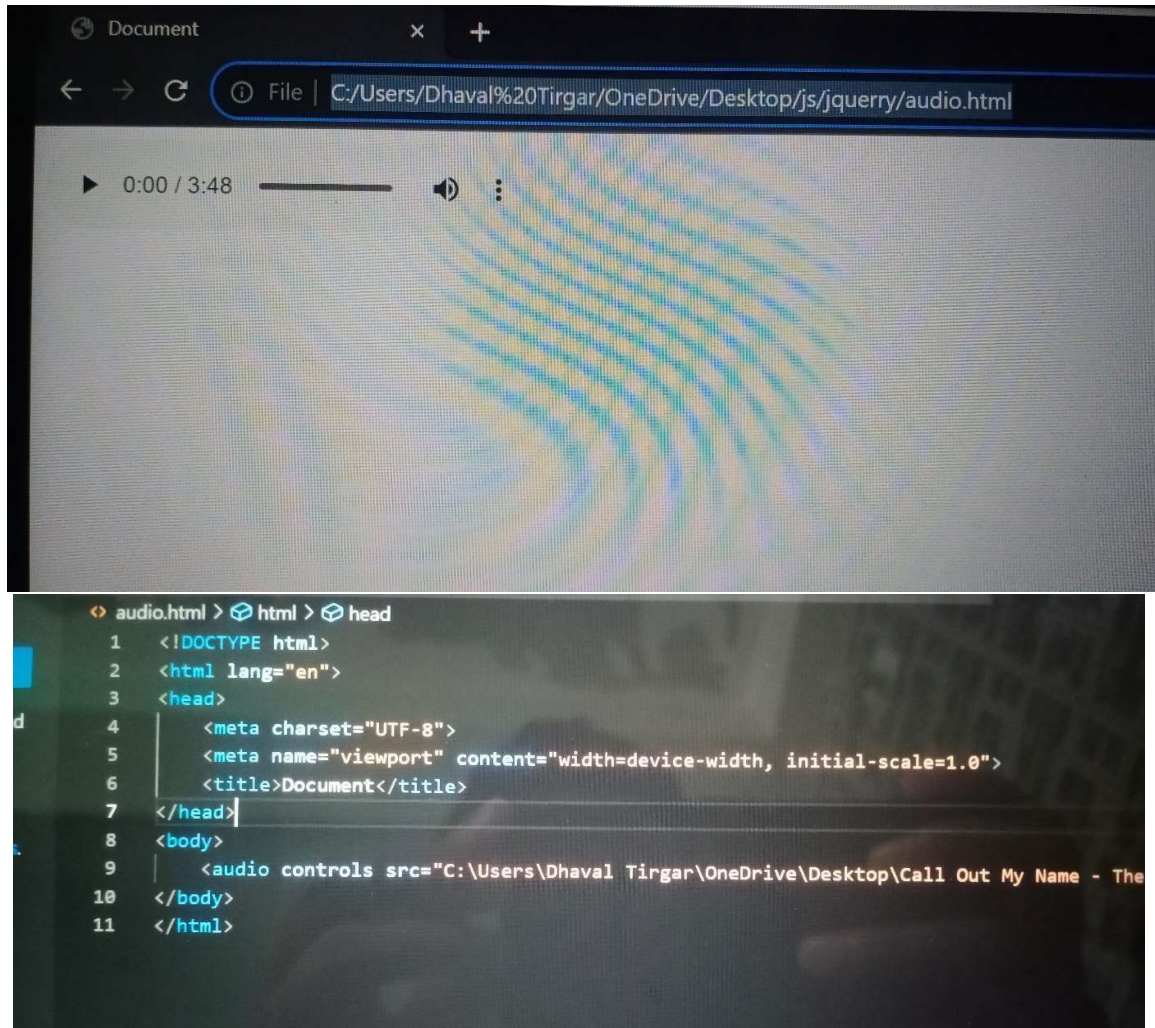
Form elements include:

- `<datalist>`: This is for taking data from user
- `<email>`: this is for input emails taken from user .
- `<number>`: this is for number of user given in the form.
- `<range>`: `<input>` tag that allows the user to select a value from a range.
- `<search>`: this is for user. they want search content and other things.
- `<tel>`: this is for taking valid manner number from user.
- `<url>`: this for adding url in form. Or taking form user .

2. how to embed audio and video in a webpage?

There are different tags used for embed audio and video from the user. For taking and showing vid and image from user developer wants to input `<audio>` and `<video>` tag. Adding this tags then this tags required urls link and path of audio and video and display on the output.

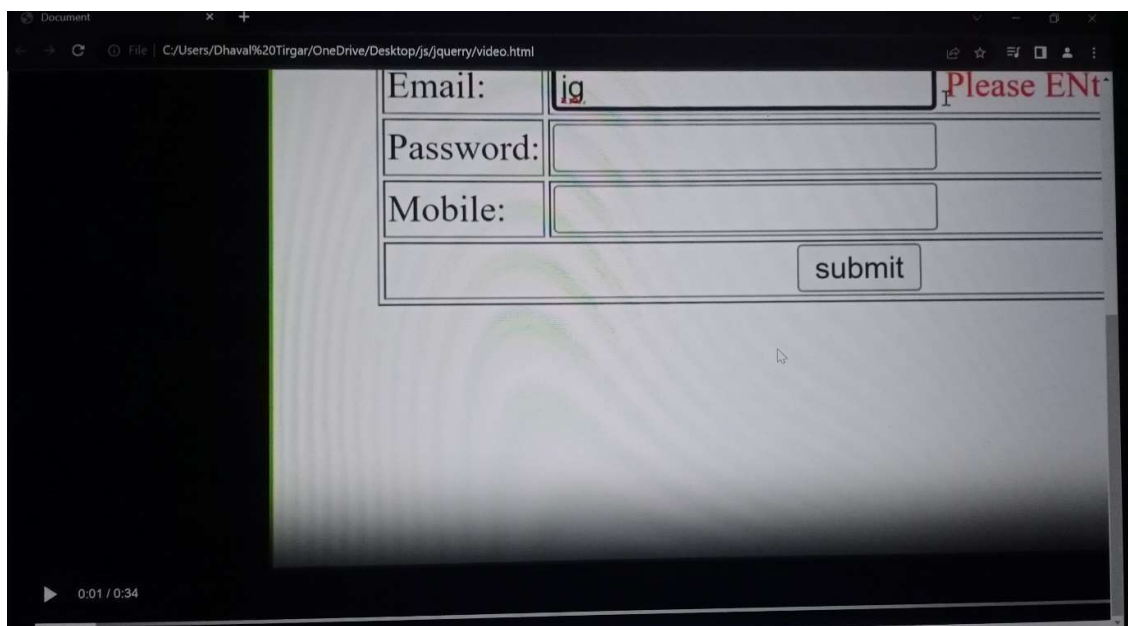
Here is an example of how to embed an audio file in a webpage:



Video tag output:

```
video.html > html > head
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <video controls src="C:\Users\Dhaval Tigar\Videos\Captures\Zoom - Google Chrome 2023-09-20 20-
10 </body>
11 </html>
```

Output:-



3. semantic element in HTML5.

This tags is using for displaying specific skills. This tags are for both human and computer . Semantic elements are important part of the webpage and html tags. its uses for making code more understable and webpage easy to understand.

examples of semantic elements:

<article>: self-contained piece of content, like blog post.

<aside>: content that is related to the main content of the page, but not essential to it like footnote.

<details>: content that can be expanded by the user.

<figcaption>: caption for a <figure> element.

<figure>: self-contained unit of content, like image, video, or quote.

<footer>: this is for footer that means last part of webpage .footer part of a web.

<header>: this s for head means first upper part of webpage. header part of a web.

<main>: this is for main part which is describe in middle part of webpage . main part area of a web.

Using semantic elements has a number of benefits, including:

Its very useful in html for his easily available and understand.

This is for both human and computer machines.

This is for easily browser and understable for both.

This is more powerful tool tags of html pages.

4. Canvas and SVG tags.

Canvas

This is for used in wide range in html 5 and other things.

This is also making different interesting webpages and graphics for output and webpages.

They are the grid based tag. Which Is made by pixels.

```
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dpseudo.html  page.html 4  canvas.html X  lpseudo.html  dynamicps.html  external.html  internal.html  in  ...
canvas.html > html > body > canvas#myCanvas
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Canvas</title>
7 </head>
8 <body>
9
10 <canvas id="myCanvas" width="400" height="200"></canvas>
11
12 <script>
13
14   var canvas = document.getElementById("myCanvas");
15
16   var context = canvas.getContext("2d");
17
18   context.fillStyle = "red";
19   context.fillRect(50, 50, 100, 50);
20
21   context.beginPath();
22   context.arc(300, 100, 30, 0, 2 * Math.PI);
23   context.fillStyle = "yellow";
24   context.fill();
25   context.stroke();
26 </script>
27
28 </body>
29 </html>
```

Output:-



SVG:

This element is used to make vector graphics.

This defines that graphics are shapes more than pixels.

This make it scalable and looks sharp of size.

This is for create different graphic.

If developer and creator wants make hight quality then he have to use svg tag.

```
svg.html > html > body > svg
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>SVG</title>
</head>
<body>

  <svg width="400" height="200" style="border: 2px solid #c4c4c4;">

    <rect x="50" y="50" width="100" height="50" fill="red" />

    <circle cx="300" cy="100" r="30" fill="blue" />
  </svg>

</body>
</html>
```

Output:-

