Modern HTML

Assignment

01. List out the features of HTML5. ?

Features of HTML5 are as follow:

Video and Audio Features.

- Header and Footer.
- Input tag kinds have been expanded.
- Figure and figcaption.
- Placeholders.
- Preload Videos.
- Controlling the display.

- **02. What are HTML entities? List out 5 commonly used HTML entities?**

- **HTML Entities**

- HTML character entities are used as a replacement of reserved characters in HTML. You can also replace characters that are not present on your keyboard by entities.

- These characters are replaced because some characters are reserved in HTML. HTML entities provide a wide range of characters which can allow you to add icons, geometric shapes, mathematical operators, etc.

- **For example:** if you use less than (<) or greater than (>) symbols in your text, the browser can mix them with tags that's why character entities are used in HTML to display reserved characters.

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- ## Most used HTML Character Entities

Result	Description	Entity Name	Entity Number
	non-breaking space		160
<	less than	<	60
>	greater than	>	62
&	ampersand	&	38
"	double quotation mark	"	34
'	single quotation mark (apostrophe)	'	39
¢	cent	¢	162
£	pound	£	163
¥	yen	¥	165
€	Euro	€	8364
©	copyright	©	169
®	registered trademark	®	174

- **03. What is web accessibility? List some of the assistive devices which play a major role in providing**

- **accessibility ?.**

- Introduction to Web Accessibility

- Web accessibility means that websites, tools, and technologies are designed and developed so that people with disabilities can use them. More specifically, people can:

  - perceive, understand, navigate, and interact with the Web

  - contribute to the Web

- **some of the assistive devices**

- People with disabilities access and navigate the Web in different ways, depending on their individual needs and preferences. Sometimes people configure standard software and hardware according to their needs, and sometimes people use specialized software and hardware that help them perform certain tasks.

- **Assistive Technologies**

- **Adaptive Strategies**

- **04. List any 3 ways which help us in improving the accessibility of HTML?**

- Before working on a website's accessibility, first consider the types of impairment you're optimizing for. Typically, accessibility considerations are intended to address the needs of those with the following:

- Visual impairments (low vision, partial or total blindness, colorblindness)

- Auditory impairments (deafness, being hard of hearing, tinnitus, hyperacusis)

- Motor or dexterity impairments (paralysis, cerebral palsy, repetitive strain injuries such as carpal tunnel syndrome)integrating with?

- **05. Write a short note on the tab index?**

- The **tabindex** [global attribute](#) allows developers to make HTML elements focusable, allow or prevent them from being sequentially focusable (usually with the tab key, hence the name) and determine their relative ordering for sequential focus navigation.

- **06. List an 5 semantic tags in HTML along with their descriptions ?**

- it is essential to understand the meaning of words during communication. And if this is a computer communication then it becomes more critical. So HTML5 provides more semantic elements which make easy understanding of the code.

- [5 important semantic tag](#)

_1_ <article>

HTML <article> element defines article content within a document, page, application, or a website. It can be used to represent a forum post, a magazine, a newspaper article, or a big story.

II. <section>

The <section> element is used to represent the standalone section within an HTML document. A page can have various sections and each section can contain any content, but headings for each section is not mandatory.

- ## III. <nav>
- The HTML <nav> element is used to define a set of navigation links.

- ## IV. <header>
- The <header> element represent the header of the document which can contain introductory content or navigation links.

- ## V. <footer>
- The <footer> tag defines the footer of an HTML document or page.
- Example:
- <footer>
-     <p>© Copyright 2019. All rights reserved. </p>
- </footer>

- ## **07. What are the benefits of using semantic tags in our webpage.**

- **Use Semantic Tags in HTML**

- The semantic [HTML tags](#) help the search engines and other user devices to determine the importance and context of web pages.

- The pages made with semantic elements are much easier to read.

- It has greater accessibility. It offers a better user experience.

- 08. Create a simple webpage with semantic HTML which has the header, main, and footer sections. The

- header section must contain links to navigate to different sections of the webpage. The main section

- must contain three subsections that is about that is HTML .

- What is emantic HTML and a list of commonly used

- semantic tags? In the end, the footer section must contain your name ?

- *!DOCTYPE html>*
- <html lang="en">
-   <head>
-     <meta charset="UTF-8">
-     <title>My Title</title>
-   </head>
-   <body>
-     <header>
-       <nav>..navigation menu links here...</nav>
-     </header>
-     <article>
-       <section>...</section>
-       <section>...</section>
-       <section>...</section>
-     </article>
-     <aside>...</aside>
-     <footer>...</footer>
-   </body>
- </html>

- **09. Create a simple webpage with a form for a user to enter their personal information. The form should contain three input fields with the labels "first Name", "Last Name", and "Email". The first input field should have a tabindex value of 2. The second input field should have a tabinde value of 1. The third input field shoFld have a tabindex value of &. The form should have a submit botton with the lavel "submit" and a tabindex value of 3. observe the behaviors of tabindex on your webpage?**

- `<label for="first name"> First name:</label>`
- `<input type="text" id="first name" size="44">`
- `<br>`

```html
•<label for="last name"> Last name:</label>
•<input type="text"  id="  last name" size="44">
•<br>
•<label for="usermail"> Email:</label>
•<input type="email"  id="usermail" size="44">
•<br>
•<label for="submitform"> submit:</label>
•<input type="submit"  id="submitform" size="44">
```

- **10. Create a simple webpage which has a table. The table must have 2 columns HTML and HTML5. The table**
- **should include minimum three rows describing the differences between HTML and HTML5.?**
- `<!DOCTYPE html>`
- `<html>`

- `<head>`
- `    <title>HTML vs HTML5</title>`

- `</head>`

- `<body>`
- `    <h1>HTML vs HTML5</h1>`
-

- `<table border="">`
- `<tr>`
- `<th>`HTML`</th>`
- `<th>`HTML5`</th>`
- `</tr>`
-
- `<tr>`
- `<td>`HTML stands for Hypertext Markup Language.`</td>`
- `<td>`HTML5 stands for Hypertext Markup
- language 5.
- `</tr>`
- `<tr>`
- `<td>`HTML was introduced in 1991.`</td>`
-

-         `<td>`HTML5 was introduced in 2014.`</td>`
-      `</tr>`
- `<tr>`
-       `<td>`HTML4 and earlier versions had limited support for multimedia.`</td>`
-       `<td>`HTML5 includes built-in support for audio, video, and canvas elements.`</td>`
-      `</tr>`
-     `</table>`
- `</body>`
- .
- `</html>`