**Module (HTML 5) -3**

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| **1** | **What are the new tags added in HTML5?** |
|  | Some new tags were introduced in HTML 5 to provide a better document structure. These tags are listed below.   |  |  | | --- | --- | | **Tag** | **Uses** | | <article> | Used to specify a blog, a magazine or a newspaper article or any other independent piece of content in a document. | | <aside> | Used to indicate that the specified article is somehow related to the rest of the document. | | <bdi> | Used for bi-directional isolation, i.e, to isolate a part of a content which is formatted in other direction from the outside text document. | | <data> | Used to facilitate a machine readable version of the data. | | <details> | Used to define any additional information on a topic or a summary. | | <dialog> | Used to specify a window or a dialog box. | | <figcaption> | Used to specify a caption for a <figure> element. | | <figure> | Used to specify a self-contained content like photos, diagrams etc. | | <footer> | Used to specify a footer for a section. | | <header> | Used to specify a header for a section. | | <main> | Used to specify the main content of a document. | | <mark> | Used to mark or highlight the specified content. | | <menuitem> | Used to specify a command that the user can invoke from a popup menu. | | <meter> | Used to determine a scalar value within a given range. | | <nav> | Used to specify a navigation link in an HTML document. | | <progress> | Used to define the progress of a task. | | <rp> | Used to specify the content to show in a browser that don’t support ruby annotation. | | <rt> | Used to indicate an explanation or pronunciation of characters. | | <ruby> | Used to specify a ruby annotation along with <rp> and <rt>. | | <section> | Used to specify a section in an HTML document. | | <time> | Used to define a date or time. | | <wbr> | Used to specify a line break opportunity. |   **Form Tags:**   |  |  | | --- | --- | | **Tag** | **Uses** | | <datalist> | Used to facilitate an auto complete feature for text field. | | <output> | Used to specify the output of a calculation or an outcome of the user action. |   **Graphics Tags:**   |  |  | | --- | --- | | **Tag** | **Uses** | | <canvas> | Used to draw canvas in an HTML document. | | <svg> | Used to display shapes. |   **Media Tags:**   |  |  | | --- | --- | | **Tag** | **Uses** | | <audio> | Used to define an audio file in HTML. | | <embed> | Used to specify a container for an external file, application or a media. | | <source> | Used to specify multiple media resources for a media element. | | <track> | Used to specify the text tracks for an <audio> or a <video> element. | | <video> | Used to specify a video file in HTML. |   **New <input> types:**   |  |  | | --- | --- | | **Type** | **Uses** | | color | Used to define an input field to indicate a color selector. | | Date | Used to define an input field to indicate a date selector. | | Datetime | Used to display date and time along with the time zone information. | | datetime-local | Used to display date and time without the time zone information. | | Email | Used to specify an input field with an email pattern validation property. | | Month | Used to specify an input field to enter month for the particular year. | | Number | Used to specify a field that accepts a numeric value only. | | Range | Used to create a numeric value selector for a range of 1 to 100. | | Search | Used to create a search field. | | Tel | Used to define a control to enter a telephone number. | | Time | Used to define a control to enter time value with no time zone. | | url | Used to define an input field to enter a URL. | | Week | Used to create a week value selector for a particular year. | |
| **2** | **How to embed audio and video in a webpage?** |
|  | The HTML5 <audio> and <video> tags make it simple to add media to a website. You need to set **src** attribute to identify the media source and include a controls attribute so the user can play and pause the media.  **Input :**  <https://github.com/adc1989/HTML/blob/main/audio_video.html>  **Output :** |
| **3** | **Semantic element in HTML5?** |
|  | Semantic HTML elements are those that clearly describe their meaning in a human- and machine-readable way. Elements such as <header>, <footer> and <article> are all considered semantic because they accurately describe the purpose of the element and the type of content that is inside them. |
| **4** | **Canvas and SVG tags**  **Canvas tag** :The HTML <canvas> element is used to draw graphics, on the fly, via JavaScript. The <canvas> element is only a container for graphics. You must use JavaScript to actually draw the graphics. Canvas has several methods for drawing paths, boxes, circles, text, and adding images.  **Input :**  https://github.com/adc1989/HTML/blob/main/canvas.html  **Output :** |
|  | **SVG tag** : SVG stands for Scalable Vector Graphics. SVG is used to define graphics for the Web. The HTML <svg> element is a container for SVG graphics. SVG has several methods for drawing paths, boxes, circles, text, and graphic images.  **Input :**  <https://github.com/adc1989/HTML/blob/main/svg.html>  **Output:** |