**Module-1**

**Introduction(HTML5,CSS3 & JAVASCRIPT)**

1. **What is HTML5?**

**HTML5 is a** [**markup language**](https://en.wikipedia.org/wiki/Markup_language) **used for structuring and presenting content on the** [**World Wide Web**](https://en.wikipedia.org/wiki/World_Wide_Web)**. It is the fifth and final**[**[3]**](https://en.wikipedia.org/wiki/HTML5#cite_note-W3C_transfer_ZDNet-3) **major** [**HTML**](https://en.wikipedia.org/wiki/HTML) **version that is a** [**World Wide Web Consortium**](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium) **(W3C) recommendation. The current specification is known as the** [**HTML Living Standard**](https://en.wikipedia.org/wiki/HTML_Living_Standard)**. It is maintained by the** [**Web Hypertext Application Technology Working Group**](https://en.wikipedia.org/wiki/Web_Hypertext_Application_Technology_Working_Group) **(WHATWG), a consortium of the major browser vendors (**[**Apple**](https://en.wikipedia.org/wiki/Apple_Inc.)**,** [**Google**](https://en.wikipedia.org/wiki/Google)**,** [**Mozilla**](https://en.wikipedia.org/wiki/Mozilla)**, and** [**Microsoft**](https://en.wikipedia.org/wiki/Microsoft)**).**

1. **What is HTM5 structure Based Tag?**

* **<article>**
* **<aside>**
* **<details>**
* **<figcaption>**
* **<figure>**
* **<footer>**
* **<header>**
* **<main>**
* **<mark>**
* **<nav>**
* **<section>**
* **<summary>**
* **<time>**

1. **What is HTM5 Content Based Tag ?**

**<abbr>**

**<cite>**

**<code>**

**<dfn>**

**<em>**

**<kbd>**

**<samp>**

**<strong>**

**<var>**

1. **What is CSS3?**

**The biggest change that is for CSS level 3 is the introduction of modules. The advantage of modules is that it (supposedly) allows the specification to be completed and approved more quickly because segments are completed and approved in chunks. This also allows browser and user-agent manufacturers to support sections of the specification but keep their code bloat to a minimum by only supporting those modules that make sense. For example, a text reader wouldn't need to include modules that only define how an element is going to display visually. But even if it only included the aural modules, it would still be a standards-compliant** [**CSS**](https://www.thoughtco.com/what-is-css-3466390) **3 tool.**

1. **What is Transition and Transform in CSS3 ?**

**Transition :**

**CSS transitions allows you to change property values smoothly, over a given duration.**

**Mouse over the element below to see a CSS transition effect:**

* **transition**
* **transition-delay**
* **transition-duration**
* **transition-property**
* **transition-timing-function**

**Transform :**

**CSS transforms allow you to move, rotate, scale, and skew elements.**

**Mouse over the element below to see a 2D transformation:**

* **transform**

1. **What is JavaScript ?**

**JavaScript is the Programming Language for the Web.**

**JavaScript can update and change both HTML and CSS.**

**JavaScript can calculate, manipulate and validate data.**

1. **What is JavaScript Boxes?**

**A prompt box is often used if you want the user to input a value before entering a page.**

**When a prompt box pops up, the user will have to click either "OK" or "Cancel" to proceed after entering an input value.**

**If the user clicks "OK" the box returns the input value. If the user clicks "Cancel" the box returns null.**

1. **What is JavaScript Events ?**

**An HTML event can be something the browser does, or something a user does.**

**Here are some examples of HTML events:**

* **An HTML web page has finished loading**
* **An HTML input field was changed**
* **An HTML button was clicked**

**Often, when events happen, you may want to do something.**

**JavaScript lets you execute code when events are detected.**

**HTML allows event handler attributes, with JavaScript code, to be added to HTML elements.**

1. **What is JavaScript Output method ?**

**JavaScript can "display" data in different ways:**

**Writing into an HTML element, using innerHTML.**

**Writing into the HTML output using document.write().**

**Writing into an alert box, using window.alert().**

**Writing into the browser console, using console.log().**

1. **How to used JavaScript Output method ?**

**Their is four method to output in Javascript :**

**innerHTML**

**document.write()**

**window.alert()**

**console.log()**

1. **How to used JavaScript Events to Do all examples ?**

**Onchange , onclick , onmouseover , onmouseout ,onkeydown ,onload**

**Ex :**

**<button onclick="document.getElementById('demo').innerHTML = Date()">The time is?</button>**

1. **Calculate subtotal price of quantity in JavaScript ?**

**Check the link :**

[**https://drive.google.com/file/d/16wbCLGCbMnXy6M0VxUwYW5uXdaTJRy8g/view?usp=sharing**](https://drive.google.com/file/d/16wbCLGCbMnXy6M0VxUwYW5uXdaTJRy8g/view?usp=sharing)

1. **How to change images using onchange Events in JavaScript ?**

**<img id="output" src="" width="100" height="100">**

**<input name="photo" type="file" accept="image/\*" onchange="document.getElementById('output').src = window.URL.createObjectURL(this.files[0])">**

1. **Write an examples of JavaScript Onblur events ?**

**Enter your name: <input type="text" id="fname" onblur="myFunction()">**

**<p>When you leave the input field, a function is triggered which transforms the input text to upper case.</p>**

**<script>**

**function myFunction() {**

**var x = document.getElementById("fname");**

**x.value = x.value.toUpperCase();**

**}**

**</script>**

1. **Write an examples of HTML5 embed tag how to implements animation images in web page ?**

**<embed type="image/jpg" src="pic\_trulli.jpg" width="300" height="200">**

**Animation :**

**You can implement animation using**

* **@keyframes**
* **animation-name**
* **animation-duration**
* **animation-delay**
* **animation-iteration-count**
* **animation-direction**
* **animation-timing-function**
* **animation-fill-mode**
* **animation**

1. **Write an examples of transitions and transform attributes of css3 in web pages ?**

**Transition :**

* **transition**
* **transition-delay**
* **transition-duration**
* **transition-property**
* **transition-timing-function**

**Transform :**

**transform (2D)**

**transform (3D)**

1. **Make an small calculator to add, subtracts and divide of twonumbers in JavaScript ?**

[**https://drive.google.com/drive/folders/1fMh-Hw3H014MKyfuaXFdkG2WuEOKiElW?usp=sharing**](https://drive.google.com/drive/folders/1fMh-Hw3H014MKyfuaXFdkG2WuEOKiElW?usp=sharing)