**WEEK-3**

**AIM*: Adding CSS and JavaScript to the static Web-page and Introduction to main, header and footer elements of HTML5.***

**THEORY:**

***3.1: Cascading Style Sheets (CSS)***

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML. Along with HTML and JavaScript.CSS is designed primarily to enable the separation of presentation and content, including aspects such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple HTML pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

Separation of formatting and content makes it possible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. It can also display the web page differently depending on the screen size or viewing device.

Changes to the graphic design of a document (or hundreds of documents) can be applied quickly and easily, by editing a few lines in the CSS file they use, rather than by changing markup in the documents. The CSS specification describes a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called cascade, priorities (or weights) are calculated and assigned to rules, so that the results are predictable.

***3.1: JavaScript (JS)***

JavaScript, often abbreviated as JS, is a high-level, dynamic, weakly typed, object-based, multi-paradigm, and interpreted programming language. Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content production. It is used to make webpages interactive and provide online programs, including video games. The majority of websites employ it, and all modern web browsers support it by built-in JavaScript engine. Each of the many JavaScript is based on the ECMAScript specification, with some engines not supporting the spec fully, and with many engines supporting additional features beyond ECMA.

As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative (including object-oriented and prototype-based) programming styles. It has an API for working with text, arrays, dates, regular expressions, and basic manipulation of the DOM, but does not include any I/O, such as networking, storage, or graphics facilities, relying for these upon the host environment in which it is embedded.

Initially only implemented client-side in web browsers, JavaScript engines are now embedded in many other types of host software, including server-side in web servers and databases, and in non-web programs such as word processors and PDF software, and in runtime environments that make JavaScript available for writing mobile and desktop applications, including desktop widgets.

Although there are strong outward similarities between JavaScript and Java, including language name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design; JavaScript was influenced by programming languages such as Self and Scheme.

**SOURCE CODE:**

**index.html:**

<!DOCTYPE HTML>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>Portfolio- Tanmay Sharma</title>

<link rel="stylesheet" type="text/css" href="cssT.css">

</head>

<body>

<div class="header">

<div class="inner-header">

<div class="logo">

<a href="#about">Tanmay Sharma</a>

</div>

<div class="header-link">

<a href="#achievement">Achievements</a>

</div>

<div class="header-link">

<a href="#comp">Competencies</a>

</div>

<div class="header-link">

<a href="#about">About Me</a>

</div>

<div class="header-link">

<a href="#h">Home</a>

</div>

</div>

</div>

<div class="content" id="h">

<div class="banner-image">

<div class="inner-banner-image">

<div class="banner\_content">

<h1>Hi, my name is Tanmay.</h1>

<h1>I am <u>Programmer</u> and <u>Python Enthusiast</u>.</h1>

<a href="tel:9013839374" class="button">Call me</a>

</div>

</div>

</div>

<div class="aboute" id="about">

<div class="profile-image">

<img src="bg1.jpg" alt="img" style="border: 1px solid black">

<div class="t">

<h4>Tanmay Sharma</h4>

<p><b>DOB:</b> 21 March 1997</p>

<p><b>Education Qualification:</b> BTech-CSE</p>

<p><b>College:</b> Maharaja Agrasen Institute of Technology</p>

<p><b>Programming Skills:</b> Python, JavaFX, C, C++, Java</p>

</div>

</div>

<div class="about-content" style="padding: 20px;">

<h1 style="text-align: center">ABOUT ME</h1>

<p>Driven CSE student who has keen to pursue future in Machine Learning & Artificial Intelligence.<br>I'm high energy, enthusiastic person, passionate about working hand-in-hand with developers and interested in technology.<br>I am pursuing BTech in the branch of Computer Science & Engineering from Maharaja Agrasen Institute of <br>Technology affiliated to Guru Gobind Singh Indraprastha University.</p>

</div>

</div>

<div class="competencies" id="comp" style="text-align: center">

<br>

<br>

<div>

<h1 style="color: red"><u>COMPETENCIES</u></h1>

<br>

<br>

<table style="width:auto; color: yellow;">

<tr>

<th >Programming Languages & other computer skills</th>

<td>JAVAFX, Python, C, C++, JAVA, SQL, Microsoft Power Point, Microsoft Excel, MS Office, Internet , Photoshop</td>

</tr>

<tr>

<th>Hobbies & Interest</th>

<td>Badminton, Listening Music, finding and reading new technologies and article related to my field and interest</td>

</tr>

<tr>

<th>Strength</th>

<td>Optimistic, Punctuality, Hard Working, Dedicated towards work, Flexible Nature</td>

</tr>

</table>

</div>

<br>

<br>

<br>

<div>

<h1 style="color: red"><u>Project Work</u></h1>

<p style="color: yellow;">Internship in Defence Lab (DRDO), Jodhpur on project <b><u>DIGITAL IMAGE PROCESSING through JavaFX</u></b>. </p>

</div>

</div>

<div class="achievement" id="achievement">

<br>

<br>

<h1 style="text-align: center"><u>ACHIEVEMENTS</u></h1>

<ul>

<li>Cyber Security Certificate by CyberCure Solutions (an unit of CyberCure Technologies Pvt. Ltd) at Delhi Technological University</li>

<li>Code Wars 2 (Programming) certificate by MAIT-CSI.</li>

<li>Won Mathematics award in class XIIth.</li>

<li>Participated in National Student Science Congress at Zonal level, District level and State level.</li>

<li>Judo YELLOW BELTER with Silver medal.</li>

</ul>

</div>

</div>

<footer>

<div>

<center>

<p>

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<br><br>

<em>Important: Designed & Developed by <a href="mailto:tanmay.sharma97.ts@gmail.com">U8krs</em>

</p>

</center>

</div>

</footer>

</body>

</html>

**style.css:**

body{

width: 100%;

height: 100%;

margin: 0;

background-color: grey;

}

a{

text-decoration: none;

background-color: transparent;

color:#ededed;

}

.header{

background-color:#000;

color:#fff;

border-color: #080808;

min-height: 50px;

border: 1px solid transparent;

}

.inner-header{

width:80%;

margin:auto;

}

.logo{

float: left;

height: 50px;

padding: 15px;

font-size: 20px;

font-weight: bold;

}

.header-link{

float:right;

font-size:14px;

height: 50px;

padding: 15px 15px;

font-size:16px;

font-weight: bold;

}

.content{

min-height: 600px;

}

.banner-image{

padding-bottom: 50px;

margin-bottom: 20px;

text-align: center;

color: #f8f8f8;

background: url(intro-bg\_1.jpg) no-repeat center;

background-size: cover;

}

.inner-banner-image{

padding-top: 12%;

width:80%;

margin:auto;

}

.banner\_content{

position: relative;

padding-top: 6%;

padding-bottom: 6%;

overflow:hidden;

margin-bottom: 12%;

background-color: rgba(0, 0, 0, 0.7);

min-width: 256px;

}

.button{

color: #fff;

background-color: #c9302c;

border-color: #ac2925;

box-shadow: inset 0 3px 5px rgba(0, 0, 0, .125);

padding: 10px 16px;

font-size: 18px;

border-radius: 6px;

}

.aboute{

padding: 50px;

background: url(e.jpg) no-repeat center;

background-size: cover;

overflow:auto;

border: 1px solid black;

}

.about-content{

border: 1px solid black;

}

.t{

text-align: center;

border: 1px solid black;

}

table, th, td {

border: 2px solid green;

padding: 15px;

border-collapse: collapse;

}

@media only screen and (min-width: 480px) {

.button {

visibility: hidden;

}

.profile-image{

float:left;

}

.about-content{

float: left;

}

.header{

position: fixed;

top: 0;

width: 100%;

height: auto;

}

}

.competencies{

clear:both;

padding: 50px;

background: url(2.jpg) no-repeat center;

background-size: cover;

overflow:auto;

border: 1px solid black;

min-height: 600px;

}

.achievement{

clear:both;

padding: 50px;

background: url(r.png) no-repeat center;

background-size: cover;

overflow:auto;

border: 1px solid black;

min-height: 600px;

}

@media only screen and (max-width: 480px) {

img{

width:100%;

}

}

footer{

clear: both;

background-color: #000;

color:#fff;

font-size:14px;

padding: 40px 0px 20px 0px;

}

**script.js:**

function myFunction() {

var x = document.getElementById("myTopnav");

if (x.className === "topnav") {

x.className += " responsive";

} else {

x.className = "topnav";

}

}