**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>

<html lang="en">

<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> Lifestyle Store </title>

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

<script src="js/scripts.js"></script>

</head>

<body>

<div class="topnav" id="myTopnav" style="position: fixed;">

<a href="index.html" class="active" style="padding-right: 50px;">Urban Trap</a>

<a href="products.html">Products</a>

<a href="login.html">Login</a>

<a href="signup.html">Sign Up</a>

<a href="javascript:void(0);" style="font-size:15px;" class="icon" onclick="myFunction()">&#9776;</a>

</div>

<div class="content">

<div class="banner-image">

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

<div class="banner\_content">

<h1>We sell lifestyle.</h1>

<p style="color: white;">Flat 40% OFF on premium brands</p>

<br><br>

<a href="products.html" class="button">Shop Now</a>

<br><br>

</div>

</div>

</div>

</div>

<div class="container">

<div class="items">

<a href="products.html">

<img src="img/watch.jpg" alt="img" class="thumbnail">

<div class="caption">

<h2>Watches</h2>

<p>Original watches from the best brands.</p>

</div>

</a>

</div>

<div class="items">

<a href="products.html">

<img src="img/camera.jpg" alt="img" class="thumbnail">

<div class="caption">

<h2>Cameras</h2>

<p>Choose among the best available in the world.</p>

</div>

</a>

</div>

<div class="items">

<a href="products.html">

<img src="img/shirt.jpg" alt="img" class="thumbnail">

<div class="caption">

<h2>Shirts</h2>

<p>Our exclusive collection of shirts.</p>

</div>

</a>

</div>

</div>

<footer>

<div>

<center>

<p>

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</p>

</center>

</div>

</footer>

</body>

</html>

**style.css:**

body{

width: 100%;

height: 100%;

margin: 0;

font-family: Arial, Helvetica, sans-serif;

}

a{

text-decoration: none;

background-color: transparent;

color:#ededed;

}

.topnav {

overflow: hidden;

width: 100%;

top: 0;

padding: 10px 0px;

z-index: 999;

background-color: rgba(0,0,255,0.5);

}

.topnav a {

float: left;

color: #fff;

display: block;

text-align: center;

padding: 14px 16px;

text-decoration: none;

font-size: 17px;

}

.topnav a:hover{

color: #ff8;

}

.active {

color: white;

}

.topnav .icon {

display: none;

color: #fff;

}

@media screen and (max-width: 600px) {

.topnav a:not(:first-child) {display: none;}

.topnav a.icon {

float: right;

display: block;

}

.float-right{

float: right;

}

}

@media screen and (max-width: 600px) {

.topnav.responsive {position: relative;}

.topnav.responsive .icon {

position: absolute;

right: 0;

top: 0;

}

.topnav.responsive a {

float: none;

display: block;

text-align: left;

}

}

.banner-image{

padding-bottom: 30px;

margin-bottom: 15px;

text-align: center;

color: #f8f8f8;

background: url(img/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: 280px;

}

.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;

}

.container{

width:90%;

margin:auto;

overflow:hidden;

}

.items{

display: block;

padding: 4px;

margin-bottom: 20px;

line-height: 1.42857143;

background-color: #fff;

border: 1px solid #ddd;

border-radius: 4px;

float:left;

margin-left:1%;

}

@media screen and (max-width: 600px) {

.items{

width:100%;

}

}

@media screen and (min-width: 600px) {

.items{

width:30%;

}

}

.thumbnail{

display: block;

max-width: 100%;

height: auto;

}

.login{

background-color: #f8f8f8;

height: 60vh;

margin: 0% 3% auto;

}

.form-group{

padding: 5px 10px;

}

.form button{

border: 1px solid grey;

padding: 8px 20px;

border-radius: 4px;

background-color: white;

box-shadow: 0px 1px 13px 0px;

}

.form-group input{

border: 1px solid grey;

padding: 8px;

border-radius: 4px;

}

.form-group input:hover{

border: 1px solid blue;

padding: 14px;

font: 16px;

border-radius: 4px;

}

hr{

max-width: 100px;

padding: 2px;

background-color: #352e5a;

border-radius: 4px;

}

.caption{

color:#000;

padding:0px 10px 10px;

font-weight: bold;

text-align: center;

}

.caption h2,p,a{

color:#000;

}

footer{

background-color: #a0949480;

color:#fff;

font-size:14px;

padding: 20px 0px;

}

**script.js:**

function myFunction() {

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

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

x.className += " responsive";

} else {

x.className = "topnav";

}

}