**HTML 5– L1: Trend NXT Hands-on Assignments**

**Estimated Efforts:**

**Trend NXT URL** [**https://wipro365.sharepoint.com/sites/ku-practice4113/Pages/Learning%20Contents/HTML%205%20L1.aspx**](https://wipro365.sharepoint.com/sites/ku-practice-4113/Pages/Learning%20Contents/HTML%205%20L1.aspx)

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**Date:**

**ToC :**

|  |  |  |
| --- | --- | --- |
| **Topics** | **No. of questions** | **Min No of assignments to be done for Hands on** |
| **HTML 5 Basics** | **3** | **4** |
| **Canvas** | **4** |
| **Form Attributes** | **3** |
| **Form Elements** | **3** |
| **Input Types** | **3** |
| **Media Elements** | **2** |
| **Semantic Elements** | **2** |
| **Total No. of questions** | **20** | **4** |

**Topics : Covered**

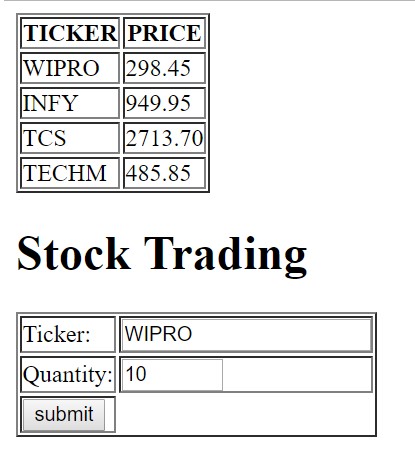
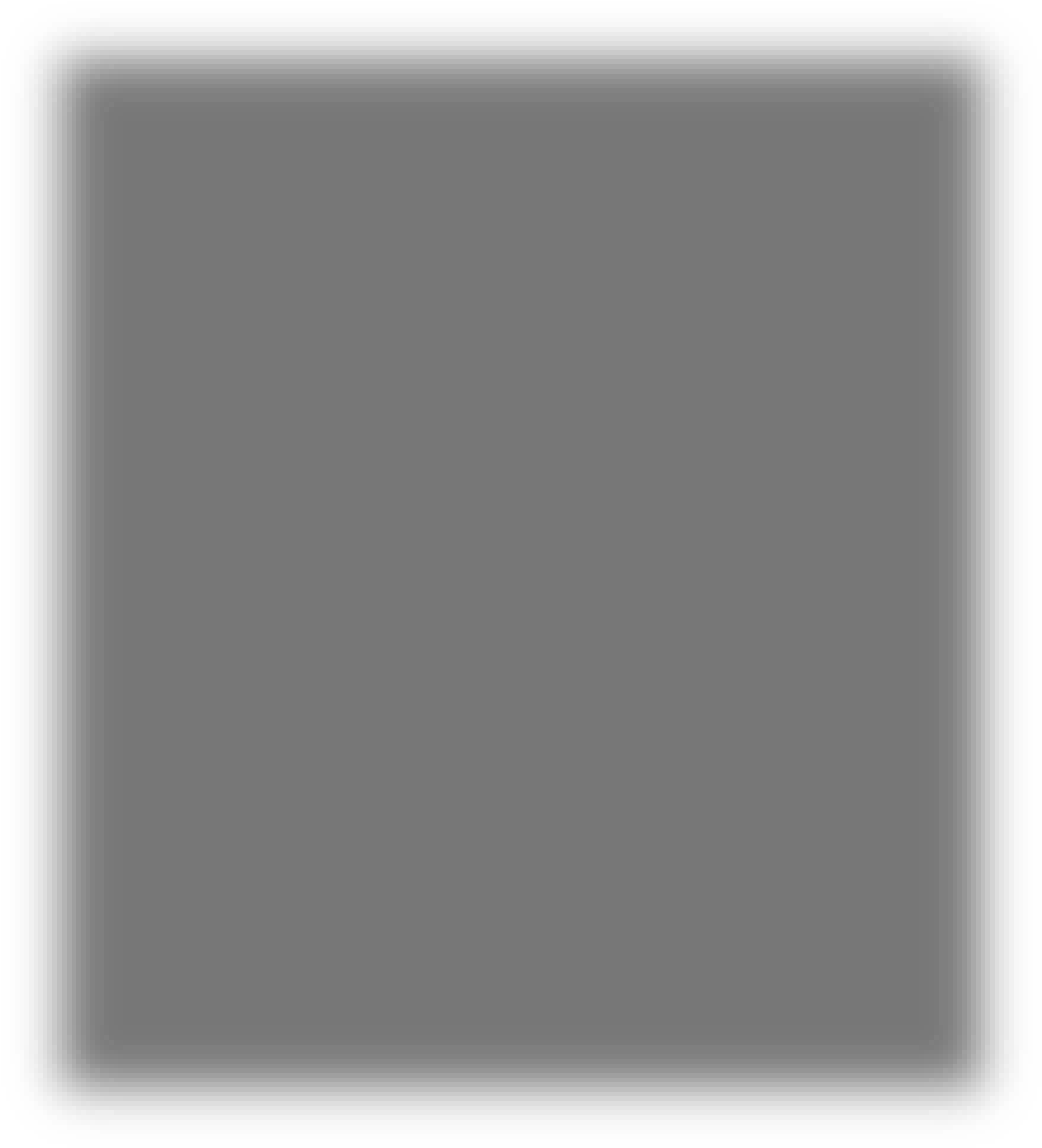
**HTML 5 Basics, Canvas, Form Attributes, Form Elements, Input Types**

**Assignment 1:-**

1.Create a HTML5 web page which is used for a Stock Trading App

Requirements:

1. The stock ticker symbol and price as below should be displayed in a table format
2. The Stock trading form below should allow the user to enter the TICKER symbol and the quantity of shares that the user wishes to purchase.
3. The shares/stocks can be purchased only in block of 10s (ie 10 shares, 20 shares, 30 shares…..). Validate that the ‘quantity’ input can only take numbers as its value and min is 10 and max is 100 and can be bought only in blocks of 10s as discussed earlier.



**ANSWER :-**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8"/>

<title>Stock Trading Application</title>

<style>

table {

border: 1px solid black;

border-collapse: collapse;

width: 20%;

}

td {

border: 1px solid black;

border-collapse: collapse;

text-transform: uppercase;

}

th {

font-weight: bold;

border: 1px solid black;

border-collapse: collapse;

text-transform: uppercase;

}

</style>

<script>

function validateStock() {

var quantity = document.forms['stock']['qty'].value;

quantity = parseInt(quantity);

if(quantity < 10 || quantity > 100 || quantity % 10 !== 0)

alert("INVALID QUANTITY");

}

</script>

</head>

<body style="margin: 0.5in;">

<div>

<table id="table">

<tr>

<th>ticker</th>

<th>price</th>

</tr>

<tr>

<td>wipro</td>

<td>298.45</td>

</tr>

<tr>

<td>infy</td>

<td>949.95</td>

</tr>

<tr>

<td>tcs</td>

<td>2713.70</td>

</tr>

<tr>

<td>techm</td>

<td>485.85</td>

</tr>

</table>

</div>

<div>

<form name="stock" onsubmit="validateStock()">

<h1>Stock Trading</h1>

<table style="border: 0;">

<tr>

<td style="border: 0; text-transform: capitalize;">ticker:</td>

<td style="border: 0; text-transform: uppercase;"><input type="text" name="ticker"></input></td>

</tr>

<tr>

<td style="border: 0; text-transform: capitalize;">qantity:</td>

<td style="border: 0;"><input type="text" name="qty"></input></td>

</tr>

<tr style="height: 12pt;"></tr>

<tr>

<td style="border: 0;"></td>

<td style="border: 0;"><input type="submit" name="submit" value="Submit"></td>

</tr>

</table>

</form>

</div>

<div id='debug'></div>

</body>

</html>

**Assignment 2:**

Create a Web Page for an Event Management Company "Xena Events" which is conducting a hot balloon riding event from Feb 28th 2017 onwards for 5 days.

The Web Page should have the below:

1. Heading with appropriate name and logo.

1. A form where people can register for this event with the below details:
2. Name : should allow only alphabets.
3. Age : should be equal to or greater than 18.
4. Email ID : should be a valid email id format
5. City: On clicking on the text box, Should display a list that contains city names as "Rajkot",

"Vizag" and "Bangalore" but whatever the user enters also should be shown in the list

Note: All entries are "mandatory".

**ANSWER :-**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

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

<title>Xena Events</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body {

background-color: lavenderblush;

margin: 1cm;

border: 2px solid blue;

padding: 1cm;

border-radius: 20px;

}

input {

text-transform: uppercase;

}

table {

width: 60%;

}

</style>

<script>

function validateForm() {

var name = document.forms['register']['name'].value;

var age = document.forms['register']['age'].value;

var email = document.forms['register']['email'].value;

if(!name.match(/^[A-Za-z]+$/)) {

alert("Name:\t\* CHARACTERS ONLY");

}

if(parseInt(age) < 18) {

alert("Age:\t\* EQUAL OR GREATER THAN 18");

}

if(!email.match(/^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/)) {

alert("Email ID:\t\* INVALID EMAIL ID");

}

}

</script>

</head>

<body>

<div><svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" width="200" version="1.1" content="&lt;mxfile userAgent=&quot;Mozilla/5.0 (X11; Ubuntu; Linux x86\_64; rv:61.0) Gecko/20100101 Firefox/61.0&quot; version=&quot;9.0.6&quot; editor=&quot;www.draw.io&quot; type=&quot;device&quot;&gt;&lt;diagram id=&quot;73392218-610b-bcbb-4535-744ac0e1ed27&quot; name=&quot;Page-1&quot;&gt;&lt;/diagram&gt;&lt;/mxfile&gt;" onclick="(function(svg){var src=window.event.target||window.event.srcElement;while (src!=null&amp;&amp;src.nodeName.toLowerCase()!='a'){src=src.parentNode;}if(src==null){if(svg.wnd!=null&amp;&amp;!svg.wnd.closed){svg.wnd.focus();}else{var r=function(evt){if(evt.data=='ready'&amp;&amp;evt.source==svg.wnd){svg.wnd.postMessage(decodeURIComponent(svg.getAttribute('content')),'\*');window.removeEventListener('message',r);}};window.addEventListener('message',r);svg.wnd=window.open('https://www.draw.io/?client=1&amp;lightbox=1&amp;edit=\_blank');}}})(this);" viewBox="0 0 809 362" style="cursor:pointer;max-width:100%;max-height:362px;"><defs><filter id="dropShadow"><feGaussianBlur in="SourceAlpha" stdDeviation="1.7" result="blur"/><feOffset in="blur" dx="3" dy="3" result="offsetBlur"/><feFlood flood-color="#3D4574" flood-opacity="0.4" result="offsetColor"/><feComposite in="offsetColor" in2="offsetBlur" operator="in" result="offsetBlur"/><feBlend in="SourceGraphic" in2="offsetBlur"/></filter></defs><g transform="translate(0.5,0.5)" filter="url(#dropShadow)"><path d="M 195.18 159.32 L 219.41 159.32 L 219.41 149.32 L 304 177 L 219.41 204.68 L 219.41 194.68 L 195.18 194.68 L 195.18 216.41 L 205.18 216.41 L 177.5 301 L 149.82 216.41 L 159.82 216.41 L 159.82 194.68 L 135.59 194.68 L 135.59 204.68 L 51 177 L 135.59 149.32 L 135.59 159.32 L 159.82 159.32 L 159.82 137.59 L 149.82 137.59 L 177.5 53 L 205.18 137.59 L 195.18 137.59 Z" fill="#ff0000" stroke="#000000" stroke-miterlimit="10" transform="rotate(45,177.5,177)" pointer-events="none"/><g transform="translate(233.5,115.5)"><switch><foreignObject style="overflow:visible;" pointer-events="all" width="556" height="145" requiredFeatures="http://www.w3.org/TR/SVG11/feature#Extensibility"><div xmlns="http://www.w3.org/1999/xhtml" style="display: inline-block; font-size: 12px; font-family: Helvetica; color: rgb(0, 0, 0); line-height: 1.2; vertical-align: top; white-space: nowrap;"><div xmlns="http://www.w3.org/1999/xhtml" style="display:inline-block;text-align:inherit;text-decoration:inherit;"><h1><font style="font-size: 96px" face="Times New Roman" color="#FF0000">ENA EVENT</font></h1></div></div></foreignObject><text x="278" y="79" fill="#000000" text-anchor="middle" font-size="12px" font-family="Helvetica">&lt;h1&gt;&lt;font style="font-size: 96px" face="Times New Roman" color="#FF0000"&gt;ENA EVENT&lt;/font&gt;&lt;/h1&gt;</text></switch></g></g></svg></div>

<div>

<form name="register" onsubmit="validateForm()">

<table>

<tr>

<td>Name:</td>

<td><input type="text" name="name"></td>

</tr>

<tr>

<td>Age:</td>

<td><input type="text" name="age"></td>

</tr>

<tr>

<td>Email ID:</td>

<td><input type="text" name="email"></td>

</tr>

<tr>

<td>City:</td>

<td>

<input list="venue" id="ice-cream-choice" name="ice-cream-choice" />

<datalist id="venue">

<option value="Bangalore">

<option value="Rajkot">

<option value="Vijag">

</datalist>

</td>

</tr>

<tr style="height: 12pt;"></tr>

<tr>

<td></td>

<td><input type="submit" name="submit" value="Submit"></td>

</tr>

</table>

</form>

</div>

</body>

</html>

**Assignment-3:-**

Create a Web Page with two horizontal sections.

1. The top horizontal section should have the heading "Awesome Online videos" along with an image acting as a logo.
2. The bottom horizontal section should have a view area to play the video of the week. 3. Under the view area, there should be only 2 buttons "play" and "pause" which the user can use to play or pause the video of the week.

**ANSWER :-**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

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

<title>Awesome Video</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<script>

function red1() {

document.getElementById("part1").setAttribute("style","background-color: red;");

}

function blue1() {

document.getElementById("part1").setAttribute("style","background-color: blue;");

}

function green1() {

document.getElementById("part1").setAttribute("style","background-color: green;");

}

function red2() {

document.getElementById("part2").setAttribute("style","background-color: red;");

}

function blue2() {

document.getElementById("part2").setAttribute("style","background-color: blue;");

}

function green2() {

document.getElementById("part2").setAttribute("style","background-color: green;");

}

</script>

</head>

<body>

<div id="part1" align="center" style="margin-bottom: 0;">

<div align="right">

Backgroud:

<button type="button" onclick="red1()" style="background-color: red;">R</button>

<button type="button" onclick="blue1()" style="background-color: blue;">B</button>

<button type="button" onclick="green1()" style="background-color: green;">G</button>

</div>

<img width="50px" src="images.png">

<h1>Awesome Online Videos</h1>

</div>

<div id="part2" align="center" style="margin-bottom: 0;">

<div align="right">

Backgroud:

<button type="button" onclick="red2()" style="background-color: red;">R</button>

<button type="button" onclick="blue2()" style="background-color: blue;">B</button>

<button type="button" onclick="green2()" style="background-color: green;">G</button>

</div>

<video id="video1" width="420" poster="wipro.jpg">

<source src="wipro.mp4" type="video/mp4">

Your browser does not support HTML5 video.

</video><br/>

<button type="button" onclick="playPause()">Play</button>

<button type="button" onclick="playPause()">Pause</button>

<script>

var myVideo = document.getElementById("video1");

function playPause() {

if (myVideo.paused)

myVideo.play();

else

myVideo.pause();

}

</script>

</div>

</body>

</html>

**Assignment 4:**

For the BCCI (Board of Control for Cricket in India) web page, we need to show a line chart for the batting statistics of the Indian team for a T20 cricket match. The details are as follows:

Over Runs

5 40

10 75

15 140

**ANSWER :-**

<!DOCTYPE html>

<html>

<head>

<title>T20 Match</title>

</head>

<body>

<h1>Board of Control for Cricket in India</h1>

<h3>T20 Cricket Match Statistics</h3>

<canvas id="myCanvas" width="500" height="400" style="border:1px solid #d3d3d3;">

Your browser does not support the HTML5 canvas tag.</canvas>

<script>

var c = document.getElementById("myCanvas");

var ctx = c.getContext("2d");

ctx.font = "15px Arial";

ctx.lineWidth = 1.5;

ctx.strokeText("Runs ^",32,20);

ctx.strokeText("240-",0,20);

ctx.strokeText("210-",0,70);

ctx.strokeText("180-",0,120);

ctx.strokeText("150-",0,170);

ctx.strokeText("120-",0,220);

ctx.strokeText("60 -",0,270);

ctx.strokeText("30 -",0,320);

ctx.strokeText("0 -",0,370);

ctx.moveTo(30,400);

ctx.lineTo(30,0);

ctx.moveTo(0,370);

ctx.lineTo(500,370);

ctx.stroke();

ctx.strokeText("|",130,380);

ctx.strokeText("5",130,395);

ctx.strokeText("|",230,380);

ctx.strokeText("10",230,395);

ctx.strokeText("|",330,380);

ctx.strokeText("15",330,395);

ctx.strokeText("|",430,380);

ctx.strokeText("20",430,395);

ctx.strokeText("Overs ->",435,370);

ctx.moveTo(130, 303); //(5,40)

ctx.lineTo(230, 245); //(10,75)

ctx.moveTo(230, 245);

ctx.lineTo(330, 187); //(15,140)

ctx.moveTo(330, 187);

ctx.lineTo(430, 70);

ctx.stroke();

</script>

</body>

</html>