

MODULE - 1

Introduction(HTML5,CSS3&JAVASCRIPT)

Task - 1

B1 > What is HTML5?

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. The fifth and final major HTML version is a World Wide Web Consortium (W3C) recommendation. The current specification is known as the HTML Living Standard.

B2 > What is an HTML5 structure Based Tag?

<figure> - Defines self-contained content.

<footer> - Defines a footer for a document.

<header> - Defines a header for a document.

<main> - Defines the main content of a document.

B3 > What is HTML5 Content-Based Tag?

<article>, **<aside >**, **<audio>**, **<canvas>**, **<datalist>**,
<details>, **<embed>**, **<figure>**, **<footer>**, **<header>**,
<hgroup>, **<mark>**, **<nav>**, **<progress>**, **<section>**,
<video>.

B4 > What is CSS3?

Cascading Style Sheets (CSS3) is the iteration of the CSS standard used in the styling and formatting of Web pages.

B5 > What are Transition and Transform in CSS3?

Transform:- The transform property applies a 2D or 3D transformation to an element. This property allows you to rotate, scale, move, skew, etc., elements.

Transition:- The transitions provide a way to control animation speed when changing CSS properties. Instead of having property changes take effect immediately, you can cause the changes in a property to take place over a period of time.

B6 > What is a 2D transform in CSS3?

2D Transforms allow elements rendered by CSS to be transformed in two-dimensional space.

B7 > What is JavaScript?

JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages

that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user.

B8 > What are JavaScript Boxes?

A dialog box is a temporary window an application creates to retrieve user input.

JavaScript uses 3 kinds of dialog boxes:

- Alert
- Prompt
- Confirm

B9 > What are JavaScript Events?

JavaScript's interaction with HTML is handled through events that occur when the user or the browser manipulates a page.

JavaScript uses 4 kinds of events:

- Mouse Event
- Keyboard Event
- Form Event
- Window Event

B10 > What is the JavaScript Output method?

JavaScript can "display" data in different ways:

innerHTML : an HTML element.

document.write(): the HTML output.

window.alert(): an alert box.

console.log(): the browser console.

I1 > How to use the JavaScript Output method?

JavaScript can "display" data in different ways:

innerHTML : an HTML element.

document.write(): the HTML output.

window.alert(): an alert box.

console.log(): the browser console.

I2 > How to use JavaScript Events to Do all examples?

Mouse event:

- **click**
- **mouseover**
- **mouseout**
- **mousedown**

- **mouseup**
- **mousemove**

Keyboard event:

- **keydown**
- **keyup**

Form event:

- **focus**
- **submit**
- **blur**
- **change**

Window event:

- **load**
- **unload**
- **resize**

I3 > Calculate the subtotal price of quantity in JavaScript.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>cart</title>
<style>
    table,
    th,
    td {
        border: 2px solid black !important;
    }

    td {
        width: 20% !important;
    }

    input {
        width: 90%;
        padding: 2%;
    }

    td i {
        cursor: pointer;
    }
</style>
<!-- bootstrap css -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet"
    integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
```

```
crossorigin="anonymous">

<!-- bootstrap icon cdn -->

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.10.4/font/bootstrap-icons.css">

<!-- bootstrap js -->

<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/popper.min.js"
integrity="sha384-
7+zCNj/IqJ95wo16oMtfsKbZ9ccEh31eOz1HGYDuCQ6wgnyJNSYdrPa03rtR1zdB"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
QJHtvGhmr9XOIpI6YVutG+2QOK9T+ZnN4kzFN1RtK3zEFEIsxhlmWl5/YESvpZ13"
crossorigin="anonymous"></script>

</head>
```

```
<body>

<div class="container mx-auto mt-5 shadow p-5">

  <table class="cart text-center">

    <h2>Cart</h2>

    <hr>

    <thead>

      <tr>

        <th>Product Info</th>

        <th>Quantity</th>

        <th>Price</th>

        <th>Price</th>

        <th>Action</th>

      </tr>
```

```

</thead>
<tbody>
  <tr id="mochaaa">
    <td>
       <br>
      Fortunata Window Hardware - Decorative Holdback - Mocha
    </td>
    <td><input type="number" minlength="1" maxlength="10" value="0"
id="mochaqty"
      onchange="changhmocha()"></td>
    <td><input type="text" value="29.99" id="mochaprice" readonly></td>
    <td><input type="text" value="0" id="mochasubtotle"></td>
    <td><i class="bi bi-trash-fill text-danger"
onclick="document.getElementById('mochaaa').style.display = 'none'"></i></td>
  </tr>
  <tr id="bronzeee">
    <td>
       <br>
      Woven Trellies Window Hardware - Clip Rings - Bronze
    </td>
    <td><input type="number" minlength="1" maxlength="10" value="0"
id="bronzeqty"
      onchange="changbronze()"></td>
    <td><input type="text" value="19.99" id="bronzeprice" readonly></td>
    <td><input type="text" value="0" id="bronzesubtotle"></td>
    <td><i class="bi bi-trash-fill text-danger"
onclick="document.getElementById('bronzeee').style.display = 'none'"></i></td>
  </tr>
</tr>

```



```

        <tr>
            <td></td>
            <td></td>
            <td></td>
            <td>
                <input type="text" id="totalprice" value="0" class="w-100 float-end p-2 fs-5">
            </td>
            <td></td>
        </tr>
    </tbody>
</table>
</div>

```

```

<script>
    // for Fortunata Window Hardware - Decorative Holdback - Mocha
    function changhmocha() {
        var mochaqty =parseFloat(document.getElementById("mochaqty").value);
        var mochaprice =parseFloat( document.getElementById("mochaprice").value);
        var mochasubtotle = mochaqty * mochaprice
        document.getElementById("mochasubtotle").value = mochasubtotle;

        var z = mochasubtotle +
parseFloat(document.getElementById("bronzesubtotle").value);
        document.getElementById("totalprice").value= z;
    }

    // for Woven Trellies Window Hardware - Clip Rings - Bronze
    function changbronze() {
        var bronzeqty = parseFloat(document.getElementById("bronzeqty").value);
    }

```

```

var bronzeprice = parseFloat(document.getElementById("bronzeprice").value);

var bronzesubtotle = bronzeqty * bronzeprice

document.getElementById("bronzesubtotle").value = bronzesubtotle;

var z = bronzesubtotle +
parseFloat(document.getElementById("mochasubtotle").value);

document.getElementById("totalprice").value= z;

}

// total prize

function removemocha(){

    document.getElementsByTagName("mocha").style.display="none"

}

function removebronze(){

    document.getElementsByTagName("bronze").style.display="none"

}





</script>

</body>

</html>

```

Cart

Product Info	Quantity	Price	Price	Action
 <p>Fortunata Window Hardware - Decorative Holdback - Mocha</p>	<input type="text" value="0"/>	<input type="text" value="29.99"/>	<input type="text" value="0"/>	
 <p>Woven Trellies Window Hardware - Clip Rings - Bronze</p>	<input type="text" value="0"/>	<input type="text" value="19.99"/>	<input type="text" value="0"/>	
			0	

I4 > How to change images using onchange Events in JavaScript?

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script src='main.js'></script>
```

```
<script>
```

```
function chng()
```

```
{
```

```
document.getElementById("imgg").src="https://images.unsplash.com/photo-1614027164847-1b28cfe1df60?ixlib=rb-
```

```
4.0.3&ixid=MnwxMjA3fDB8MHxzZWZyY2h8Mnx8bGlvbUyMGhlYWR8ZW58MHx8MHx8&w=1000&q=80";
```

```
}
```

```
function chng1()
```

```
{
```

```
document.getElementById("imgg").src="https://ls.codetech.nl/shops/273775/files/327790284/image.jpg";
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```


</body>

</html>
```

A1 > Write an example of JavaScript Onblur events.

```
<!DOCTYPE html>

<html>

<body>

<h1>The blur Event</h1>

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>

</body>

<script>

function myFunction() {

    let x = document.getElementById("fname");

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

}

</script>

</html>
```

A2 > Write an example of an HTML5 embed tag how to implement animation images on a web page?

```
<!DOCTYPE html>

<html>

<body>

<embed type="image/jpg" src="pic_trulli.jpg" width="300" height="200">

</body>

</html>
```

A4 > Write an example of transitions and transform attributes of css3 in web pages.

Transitions Attributes:

```
<!DOCTYPE html>

<html>

<head>

<style>

div {

    width: 100px;

    height: 100px;

    background: red;

    transition-property: width;

    transition-duration: 2s;

    transition-timing-function: linear;
```

```
}  
  
div:hover {  
    width: 300px;  
}  
  
</style>  
  
</head>  
  
<body>  
  
<h1>The transition Properties Specified One by One</h1>  
  
<div></div>  
  
</body>  
  
</html>
```

Transform Attribute:

```
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
<style>  
  
div.a {  
    width: 150px;  
    height: 80px;  
    background-color: yellow;  
    transform: rotate(20deg);  
}  
  
div.b {  
    width: 150px;  
    height: 80px;
```

```
background-color: yellow;

transform: skewY(20deg);
}

div.c {

width: 150px;

height: 80px;

background-color: yellow;

transform: scaleY(1.5);
}

</style>

</head>

<body>


<h2>transform: rotate(20deg):</h2>

<div class="a">Hello World!</div>

<br>

<h2>transform: skewY(20deg):</h2>

<div class="b">Hello World!</div>

<br>

<h2>transform: scaleY(1.5):</h2>

<div class="c">Hello World!</div>


</body>

</html>
```

A5 > Make a small calculator to add, subtracts, and divide two numbers in JavaScript.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <style>
```

```
    *{
```

```
      margin: 0%;
```

```
      padding: 0%;
```

```
      box-sizing: border-box;
```

```
    }
```

```
    button{
```

```
      width: 150px;
```

```
      font-size: 20px;
```

```
      padding: 5PX 8PX;
```

```
      background: teal;
```

```
      color: white;
```

```
      border: none;
```

```
      border-radius: 2px;
```

```
      cursor: pointer;
```

```
    }
```

```
  </style>
```

```
</head>
```



```
<body>

  <button type="button" onclick="sub()">SUBTRACTCS</button>

  <button type="button" onclick="div()">DIVIDE</button>

</body>

<script>

  function sub() {

    var a = parseInt(prompt("Enter of value a:- "));

    var b = parseInt(prompt("Enter of value b:- "));

    var c = a - b;

    alert("Subtrates of numbers is :- " + c);

  }

  function div() {

    var a = parseInt(prompt("Enter of value a:- "));

    var b = parseInt(prompt("Enter of value b:- "));

    var c = a / b;

    alert("Divide of numbers is :- " + c);

  }

</script>

</html>
```