**Practical 1**

**Aim:**

1. **Introduction to HTML.**

**HTML:**

• HTML stands for HyperText Markup Language

• HTML is the standard markup language, which is used to create a web pages.

• It is the combination of Hypertext and Markup language.

• Hypertext defines the link between the web pages.

• A markup language is used to define the text document within tag which defines the structure of web pages.

• Different markup languages are: HTML, XHTML, XML, SGML etc.

• HTML5 is the 5th version of HTML.

**Features of HTML:**

• It is easy to learn and easy to use.

• It is platform-independent.

• Images, videos, and audio can be added to a web page.

• Hypertext can be added to the text.

• It is a markup language.

**Advantages:**

• HTML is used to build websites.

• It is supported by all browsers.

• It can be integrated with other languages like CSS, JavaScript, etc.

**Disadvantages:**

• HTML can only create static web pages. For dynamic web pages, other languages have to be used.

• A large amount of code has to be written to create a simple web page.

• The security feature is not good.

1. **Write a HTML program to create Hello World Program. [Use <html>, <body>, <title>, comment <!-- --> tags.]**

**HTML CODE:**

<!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>PO1</title>

</head>

<body>

<!-- This is a hello world program -->

Hello World

</body>

</html>

**Practical 2**

**Aim: Write a HTML code to demonstrate use of following text formatting tags: <i>, <b>, <u>, <sup>, <sub>, <h1> to <h6>, <p>, <hr>, <br>,<div>, <span>.**

**HTML CODE:**

<!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>PO2</title>

</head>

<body>

<i>This is italics tag</i><br>

<b>This is bold tag</b><br>

<u>This is underline tag</u><br>

<sup>This is sup tag</sup><br>

<sub>This is sub tag</sub><br>

<h1>This is heading tag</h1>

<h2>This is heading tag</h2>

<h3>This is heading tag</h3>

<h4>This is heading tag</h4>

<h5>This is heading tag</h5>

<h6>This is heading tag</h6>

<p>This is Paragraph tag.</p><br>

<hr>

<div>

This is a division tag

</div>

<span>This is a text in span</span>

</body>

</html>

**Practical 3**

**Aim: Write a HTML code to create ordered list, unordered list and definition list.**

**HTML CODE:**

<!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>PO3</title>

</head>

<body>

<h3>Ordered list</h3>

<ol>

<li>Item-1</li>

<li>Item-2</li>

<li>Item-3</li>

</ol>

<h3>Unordered list</h3>

<ul>

<li>Item-1</li>

<li>Item-2</li>

<li>Item-3</li>

</ul>

<h3>Defination list</h3>

<dl>

<dt>Item-heading</dt>

<dd>Item-1</dd>

</dl>

</body>

</html>

**Practical 4**

**Aim: Write a HTML code demonstrates use of images, hyperlinks and background attributes.**

**HTML CODE:**

<!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>PO4</title>

</head>

<body background="https://picsum.photos/2000">

<img src="https://picsum.photos/200" alt="Unable to load image">

<br><br>

<a href="http://utu.ac.in">UKA TARSADIA UNIVERSITY</a>

</body>

</html>

**Practical 5**

**Aim: Write a HTML code to create a time table of your class using Table tags.**

**HTML CODE:**

<!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>PO5</title>

<style>

\*{

box-sizing: border-box;

text-justify: auto;

}

body{

background: rgb(250, 228, 232);

}

table{

width: 60vw;

border-radius: 12px;

}

table,tr,td,th{

border: 3px solid black;

border-radius: 12px;

border-collapse: collapse;

text-align: center;

padding: 0.5%;

margin: auto;

}

table,tr,th,td{

background: rgb(180, 241, 180);

}

.heading{

background: rgb(252, 252, 143);

}

.below{

margin: 50px auto;

width: 60%;

}

.item{

margin: 5px auto;

padding: 2% 2% 2% 10%;

}

#teacher{

float: left;

width: 47%;

}

#student{

float: left;

width: 47%;

}

</style>

</head>

<body>

<div class="content">

<table class="timetable">

<th colspan="9" class="heading"> CS 2 TIME TABLE</th>

<tr>

<th class="heading">Days</th>

<th class="heading">8:30-9:30</th>

<th class="heading">9:30-10:30</th>

<th class="heading">10:30-10:45</th>

<th class="heading">10:45-11:45</th>

<th class="heading">11:45-12:45</th>

<th class="heading">11:45-12:45</th>

<th class="heading">1:30-2:30</th>

<th class="heading">2:30-3:30</th>

</tr>

<tr>

<th class="heading">Monday</th>

<td>Calculus<br>

(HSP)

</td>

<td>ES<br>

(KS)

</td>

<td rowspan="6" class="heading">Lunch<br>Break</td>

<td>WD<br>

(JT)

</td>

<td>ES<br>

(KS)

</td>

<td rowspan="6" class="heading">Refreshment Break</td>

<td colspan="2">

PP<br>

(VDB)

</td>

</tr>

<tr>

<th class="heading">Tuesday</th>

<td>Calculus

(HSP)

</td>

<td>DLD<br>

(JAP)

</td>

<td colspan="2">

B1\_DLD(JAP)<br>B2\_ED(KS)

</td>

<td colspan="2">

PP<br>

(VDB)

</td>

</tr>

<tr>

<th class="heading">Wednesday</th>

<td>Calculus<br>(HSP)</td>

<td>

PP<br>

(VDB)

</td>

<td>DLD<br>

(JAP)

</td>

<td>MOOC</td>

<td colspan="2">

B1\_DLD(JAP)<br>B2\_ED(KS)

</td>

</tr>

<tr>

<th class="heading">Thursday</th>

<td>MOOC</td>

<td>ES<br>(KS)</td>

<td colspan="2">

PP<br>

(VDB)

</td>

<td colspan="2">WD<br>(AJD)</td>

</tr>

<tr>

<th class="heading">Friday</th>

<td colspan="2">NL<br>(AJD)</td>

<td colspan="2">ED<br>(KS)</td>

<td>WD<br>(JT)</td>

<td>Library</td>

</tr>

<tr>

<th class="heading">Saturday</th>

<td colspan="2">WD<br>(JT)</td>

<td>WD<br>(JT)</td>

<td>DLD

(JAP)

</td>

<td colspan="2">Sport/Club Activity</td>

</tr>

</table>

<div class="below">

<div class="item" id="teacher" >

<p>

ES - Environment Studies<br>

WD - Web Designing<br>

PP - Python Programming<br>

NL - Networking Laboratory<br>

ED - Engineering Drafting<br>

DLD - Digital Logic Design<br>

Calculus

</p>

</div>

<div class="item" id="subject" >

<p>

KS - Mr. Keyur surti<br>

AJD - Ms. Ankita J. Desai

JT - ms. Jinal Tandel<br>

VDB - Mr. Vishwajit D. Bakrola

JAP - Mr. Jay A. Patel

HSP - Mr. Hardik S. Patel

</p>

</div>

</div>

</div>

</body> </html>

**Practical 6**

**Aim: Write a HTML code to create a form using the following tags: <form>, <input>(text, password, checkbox, radio, submit, button, reset).**

**HTML CODE:**

<!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>PO6</title>

</head>

<body>

<h2>This is a simple form</h2>

<form action="">

<label for="text">Name</label>

<input type="text" name="text" id="text">

<br>

<label for="password">password</label>

<input type="password" name="password" id="password">

<br>

<input type="checkbox" name="checkbox" id="checkbox">

<label for="checkbox">Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolor, quia!</label><br>

<label for="radio"></label>

<input type="radio" name="radio" id="male"><label for="male">Male</label>

<input type="radio" name="radio" id="female"><label for="female">Female</label>

<br>

<input type="submit" name="submit" id="submit">

<input type="reset" name="reset" id="reset">

</form>

</body>

</html>

**Practical 7**

**Aim: Write a HTML code to create a form using the following tags: <textarea>, <select>, <option>, <fieldset>, <legend>, <button>.**

**HTML CODE:**

<!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>PO7</title>

</head>

<body>

<h3>Simple Form</h3>

<form action="">

<fieldset>

<legend>This is a form</legend>

<label for="feedback">Feedback :</label><br>

<textarea name="" id="feedback" cols="30" rows="10"></textarea><br>

<select name="why" id="why">

<option value="none">None</option>

<option value="male">male</option>

<option value="female">female</option>

</select>

<button>SUBMIT</button>

</fieldset>

</form>

</body>

</html>

**Practical 8**

**Aim: Write internal and inline CSS code to design your product page using the following selector: body, h1, p, hr, img. Apply following properties: color, font, text, background, border.**

**HTML CODE:**

<!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>PO8</title>

</head>

<body>

<div class="container">

<div class="left">

<img src="images/gopro.jpg" alt="Unable to fetch image">

<div class="left-buttons">

<button id="cart">Add to cart</button>

<button id="buy">Buy now</button>

</div>

</div>

<div class="right">

<h3>GoPro Max Rexhargable battery Sports abd action camera (Black)</h3>

<br><br><br>

<h3>44,999rs <strike>49,999</strike></h3>

<p>

<h4>Availanle Offers</h4>

<ul>

<li><b>Bank Offer</b>&nbsp;10% off on ICIC Credit Cards</li>

<li><b>Bank Offer</b>&nbsp;15% Cashback on using GoPro Payment Method</li>

<li><b>Partner Offer</b>&nbsp;Flat 10% off on UPI payment through Paytm</li>

<li><b>Partner Offer</b>&nbsp;GST Invoice Available! Save Upto 28% for bussiness purpose.</li>

</ul>

</p>

</div>

</div>

<div class="more-details">

<div>

<h1>Specification</h1>

</div>

<div>

<h4>In the Box</h4>

<p>Camera, Charger, Battery, Manual</p>

</div>

<div>

<table>

<tr>

<td colspan="2"><h3>General</h3></td>

</tr>

<tr>

<th>Brand</th>

<td>Go Pro</td>

</tr>

<tr>

<th>Ports</th>

<td>Type C, Type A</td>

</tr>

<tr>

<th>Display Type</th>

<td>LCD</td>

</tr>

<tr>

<th>Display Resolution</th>

<td>1080p</td>

</tr>

<tr>

<th>Battey Type</th>

<td>Rechargable Lithium Ion Battery</td>

</tr>

</table>

</div>

</div>

</body>

</html>

**Practical 9**

**Aim: Write a CSS code to design your product page using class, id and pseudo class selectors. Apply following properties: color, font, text, background, border, margin, padding, liststyle and position using concept of class(.) and id(#), pseudo class selector, internal and external CSS.**

**HTML CODE:**

<!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>PO9</title>

<style>

\*{

box-sizing: border-box;

margin: 0px 0px;

padding: 0px 0px;

}

.navbar{

margin: 10px 10px;

display: flex;

}

.navbar ul{

margin-left: 80%;

overflow: hidden;

}

.navbar ul li{

display: flex;

justify-content: center;

list-style: none;

float: right;

}

.navbar img{

width: 100px;

height: 35px;

}

.navbar ul li a{

padding: 5px;

text-decoration: none;

}

li.right-nav{

float: right;

}

li a#home{

padding: 5px;

background: orange;

}

li a#home:hover{

background: yellow;

}

.container{

display: flex;

}

.container div{

margin-top: 30px;

width: 50%;

}

.left{

text-align: center;

align-items: center;

}

.left .left-buttons{

margin-top: 10px;

width: 80%;

display: flex;

margin-left: 70px;

justify-content: center;

}

.left img{

border: 3px solid rgb(191, 191, 191);

padding: 20px;

width: 80%;

}

.left button{

text-transform: uppercase;

font-weight: bold;

margin: 2px;

width: 100%;

padding: 5px;

font-size: 15px;

}

#cart{

background: yellow;

}

#buy{

background: red;

}

button:hover{

color: rgb(191, 171, 167);

}

.right h3{

margin: 30px 0px;

}

.right h4{

margin: 20px 0px;

}

.right div.offers{

margin-top: 60px;

text-align: justify;

width: 700px;

}

.offers ul li{

list-style: square url("svg/tag.svg");

}

.more-details{

margin-top: 20px;

}

.more-details div{

border: 5px double black;

border-collapse: collapse;

text-align: left;

padding: 10px;

}

#Original\_Price{

margin-left: 20px;

font-size: 15px;

text-decoration: line-through

}

#item\_amount{

font-weight: 100;

color: red;

}

</style>

</head>

<body>

<div class="navbar">

<img src="images/goprologo.png" alt="" id="logo">

<ul>

<li class="right-nav"><a id="home">Home</a></li>

<li class="right-nav"><a>About</a></li>

<li class="right-nav"><a>Contact</a></li>

</ul>

</div>

<div class="container">

<div class="left">

<img src="images/gopro.jpg" alt="Unable to fetch image">

<div class="left-buttons">

<button id="cart">Add to cart</button>

<button id="buy">Buy now</button>

</div>

</div>

<div class="right">

<h3>GoPro Max Rexhargable battery Sports abd action camera (Black)</h3>

<h3>44,999rs <span id="Original\_Price">49,999</span><br><span id="item\_amount">hurry only 15 left</span></h3>

<div class="offers">

<h4>Available Offers</h4>

<ul>

<li><b>Bank Offer</b>&nbsp;10% off on ICIC Credit Cards</li>

<li><b>Bank Offer</b>&nbsp;15% Cashback on using GoPro Payment Method</li>

<li><b>Partner Offer</b>&nbsp;Flat 10% off on UPI payment through Paytm</li>

<li><b>Partner Offer</b>&nbsp;GST Invoice Available! Save Upto 28% for bussiness purpose.</li>

</ul>

</div>

</div>

</div>

<div class="more-details">

<div>

<h1>Specification</h1>

</div>

<div>

<h4>In the Box</h4>

<p>Camera, Charger, Battery, Manual</p>

</div>

<div>

<table>

<tr>

<td colspan="2"><h3>General</h3></td>

</tr>

<tr>

<th>Brand</th>

<td>Go Pro</td>

</tr>

<tr>

<th>Ports</th>

<td>Type C, Type A</td>

</tr>

<tr>

<th>Display Type</th>

<td>LCD</td>

</tr>

<tr>

<th>Display Resolution</th>

<td>1080p</td>

</tr>

<tr>

<th>Battey Type</th>

<td>Rechargable Lithium Ion Battery</td>

</tr>

</table>

</div>

</div>

</body>

</html>

**Practical 10**

**Aim: Create responsive HTML web pages using Bootstrap4 Framework.**

**HTML CODE:**

<!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>PO10</title>

<link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<script

src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

<script

src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<nav class="navbar navbar-default" style="padding-top: 20px;">

<div class="container-fluid">

<div class="navbar-header">

<a class="navbar-brand" href="#">WebSiteName</a>

</div>

<ul class="nav navbar-nav">

<li class="active"><a href="#">Home</a></li>

<li><a href="#">Page 1</a></li>

<li><a href="#">Page 2</a></li>

<li><a href="#">Page 3</a></li>

</ul>

</div>

</nav>

<div class="container-fluid" style="border: solid; padding: 10px;">

<div class="row" style="border: solid; padding: 10px;">

<div class="col-sm-6" style="border: solid;">

<h3>Lorem ipsum dolor sit, amet consectetur adipisicing

elit. Veniam atque, modi dicta repudiandae quos deleniti

numquam aperiam vitae beatae laudantium at a labore qui

quasi, ratione eaque fugit maxime reiciendis.</h3>

</div>

<div class="col-sm-6" style="border: solid;">

<h3>Lorem, ipsum dolor sit amet consectetur adipisicing

elit. Laudantium temporibus tenetur ea maxime. Labore id

dignissimos quae, veniam eveniet, quo inventore

corporis, culpa tenetur voluptate odit. Quia beatae

fugit voluptate.</h3>

</div>

</div>

<div class="row" style="text-align: center; padding: 10px;">

<div class="col-sm-4">

<img src="https://picsum.photos/200" alt="">

</div>

<div class="col-sm-4">

<img src="https://picsum.photos/200" alt="">

</div>

<div class="col-sm-4">

<img src="https://picsum.photos/200" alt="">

</div>

</div>

</div>

</body>

</html>

**Practical 11**

**Aim: Write a CSS code for applying animation, shadows, text effects and gradients to design a web page.**

**HTML CODE:**

<!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>PO11</title>

<style>

body{

background-image: linear-gradient(to right, darkblue, blue, skyblue, white);

}

h1 {

text-shadow: 2px 2px 4px #000000;

font-size: 400%;

}

div {

position: relative;

text-align: center;

animation-name: example;

animation-duration: 4s;

animation-iteration-count: infinite;

}

@keyframes example {

0% {

color: white;

left: 0px;

top: 0px;

}

25% {

color: skyblue;

left: 200px;

top: 0px;

}

50% {

color: darkblue;

left: 200px;

top: 200px;

}

75% {

color: skyblue;

left: 0px;

top: 200px;

}

100% {

color: white;

left: 0px;

top: 0px;}

}

</style>

</head>

<body>

<div>

<h1>CSS ANIMATION</h1>

</div>

</body>

</html>

**Practical 12**

**Aim: Write a JavaScript to show alert, confirm and prompt boxes.**

**HTML CODE:**

<!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>PO12</title>

<style>

body{

text-align: center;

}

button{

height: 50px;

width: 100px;

}

</style>

</head>

<body>

<h2>JavaScript Alert Confirm & prompt box</h2>

<button onclick="myFunction()">Alert</button><br><br>

<button onclick="myFunction1()">Prompt</button><br><br>

<button onclick="myFunction2()">Confirm</button><br><br>

<script>

function myFunction() {

alert("I am an alert box!");

}

function myFunction1() {

prompt("I am an prompt box!");

}

function myFunction2() {

confirm("I am an confirm box!");

}

</script>

</body>

</html>

**Practical 13**

**Aim: Write a JavaScript function to find a maximum of three numbers taken from the user using if-else and print it.**

**HTML CODE:**

<!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>PO13</title>

<style>

@import url('https://fonts.googleapis.com/css2?family=Koulen&display=swap');

\*{

box-sizing: border-box;

font-size: 20px;

font-family: 'Koulen', cursive;

}

#one{

display: flex;

justify-content: center;

margin-top: 300px;

}

div{

background: linear-gradient(to bottom,purple,skyblue);

display: block;

width: 500px;

margin: auto;

border-radius: 12px;

padding: 30px;

}

input[type=number]::-webkit-inner-spin-button,

input[type=number]::-webkit-outer-spin-button {

-webkit-appearance: none;

margin: 0;

}

.NumberInput{

width: 100%;

text-align: right;

text-transform: uppercase;

border: 2px solid green;

height: 40px;

margin: 10px 0px;

padding: 10px;

border-radius: 8px;

}

td{

color: white;

}

button{

background: linear-gradient(to left, purple,skyblue,white);

color: black;

font-size: 25px;

font-weight: 400;

border-radius: 8px;

margin-top: 10px;

}

p{

color: red;

font-size: 20px;

}

</style>

</head>

<body>

<div id="one">

<div>

<table>

<tr>

<td>First Number :</td>

<td> <input type="number" name="a" id="first" placeholder="Enter first number" class="NumberInput" /> </td>

</tr>

<tr>

<td>Second Number :</td>

<td> <input type="number" name="b" id="second" placeholder="Enter second number" class="NumberInput" /> </td>

</tr>

<tr>

<td>Third Number :</td>

<td> <input type="number" name="c" id="third" placeholder="Enter third number" class="NumberInput" /> </td>

</tr>

<tr style="text-align: center;">

<td colspan="2"> <button onclick="biggest()">CHECK</button> </td>

</tr>

</table>

<p id="num"></p>

</div>

</div>

<script type="text/javascript">

function biggest()

{

var num1,num2,num3;

num1 = parseInt(document.getElementById ("first").value);

num2 = parseInt(document.getElementById ("second").value);

num3 = parseInt(document.getElementById ("third").value);

if(num1 > num2 && num1 > num3)

{

document.getElementById ("num").innerHTML = num1+" is the biggest number";

}

else

if(num2 > num3 && num2 > num1)

{

document.getElementById ("num").innerHTML = num2+" is the biggest number";

}

else

{

document.getElementById ("num").innerHTML = num3+"is the biggest number";

}

}

</script>

</body>

</html>

**Practical 14**

**Aim: Print date and time on click of a button using inner HTML in JavaScript.**

**HTML CODE:**

<!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>PO14</title>

<style>

button{

height: 50px;

width: 100px;

}

body{

text-align: center;

}

p{

font-size: 50px;

}

</style>

</head>

<body>

<h1>Click to get Date and Time</h1>

<button type="button" onclick="time()">Click here.</button>

<p id="date\_time\_button"></p>

<script>

function time(){

document.getElementById('date\_time\_button').innerHTML = Date()

}

</script>

</body>

</html>

**Practical 15**

**Aim: Write a HTML/JavaScript code to create a simple calculator.**

**HTML CODE:**

<!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>PO15</title>

<style>

.calculator {

padding: 10px;

border-radius: 1em;

height: 380px;

width: 400px;

margin: auto;

background: radial-gradient(white,orange,red,blue,purple);

box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0, 0.23) 0px 6px 6px;

}

.display-box {

font-family: 'Orbitron', sans-serif;

background-color: white;

border: solid rgb(240, 128, 128) 0.5px;

color: black;

border-radius: 2px;

width: 100%;

height: 65%;

font-size: 20px;

border-top-left-radius: 12px;

border-bottom-left-radius: 12px;

}

.button {

font-family: 'Orbitron', sans-serif;

background-color: #472b33;

color: white;

border: solid rgb(240, 185, 185) 0.5px;

width: 100%;

border-radius: 12px;

height: 70%;

outline: none;

font-size: 20px;

}

.button:hover{

background-color: #440254;

}

.button:active {

background: #e5e5e5;

-webkit-box-shadow: inset 0px 0px 5px #c1c1c1;

-moz-box-shadow: inset 0px 0px 5px #c1c1c1;

box-shadow: inset 0px 0px 5px #c1c1c1;

}

</style>

</head>

<body>

<table class="calculator">

<tr>

<td colspan="3"> <input class="display-box" type="text"

id="result" disabled /> </td>

<td> <input class="button" type="button" value="C"

onclick="clearScreen()"

style="background-color: #85284d;border-top-left-radius:

0px;border-bottom-left-radius: 0px" /> </td>

</tr>

<tr>

<td> <input class="button" type="button" value="1"

onclick="display('1')" /> </td>

<td> <input class="button" type="button" value="2"

onclick="display('2')" /> </td>

<td> <input class="button" type="button" value="3"

onclick="display('3')" /> </td>

<td> <input class="button" type="button" value="/"

onclick="display('/')" /> </td>

</tr>

<tr>

<td> <input class="button" type="button" value="4"

onclick="display('4')" /> </td>

<td> <input class="button" type="button" value="5"

onclick="display('5')" /> </td>

<td> <input class="button" type="button" value="6"

onclick="display('6')" /> </td>

<td> <input class="button" type="button" value="-"

onclick="display('-')" /> </td>

</tr>

<tr>

<td> <input class="button" type="button" value="7"

onclick="display('7')" /> </td>

<td> <input class="button" type="button" value="8"

onclick="display('8')" /> </td>

<td> <input class="button" type="button" value="9" onclick="display('9')" /> </td>

<td> <input class="button" type="button" value="+" onclick="display('+')" /> </td>

</tr>

<tr>

<td> <input class="button" type="button" value="."

onclick="display('.')" /> </td>

<td> <input class="button" type="button" value="0"

onclick="display('0')" /> </td>

<td> <input class="button" type="button" value="="onclick="calculate()"

style="background-color: #440244;" /> </td>

<td> <input class="button" type="button" value="\*"

onclick="display('\*')" /> </td>

</tr>

</table>

<script>

function clearScreen() {

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

}

// This function display values

function display(value) {

document.getElementById("result").value += value;

}

// This function evaluates the expression and return result

function calculate() {

var p = document.getElementById("result").value;

var q = eval(p);

document.getElementById("result").value = q;

}

</script></body></html>

**Practical 16**

**Aim: Write JavaScript to validate book issue form.**

**HTML CODE :**

<!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>PO16</title>

<style>

body {

font-family: Calibri;

}

input[type=number]::-webkit-inner-spin-button,

input[type=number]::-webkit-outer-spin-button {

-webkit-appearance: none;

margin: 0;

}

input[type=text],

input[type=email],

input[type=textarea],

input[type=number],

select {

width: 100%;

padding: 12px 20px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type=submit],

input[type=reset] {

width: 100%;

background-color: hotpink;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type=submit]:hover,

input[type=reset]:hover{

opacity: 0.8;

color: black;

}

form {

text-align: center;

font-family: Calibri;

font-size: 20px;

border: 3px solid black;

width: 600px;

margin: 20px auto;

}

td {

padding: 10px;

}

td:first-child {

text-align: right;

font-weight: bold;

}

td:last-child {

text-align: left;

}

h1 {

text-align: center;

}

</style>

</head>

<body>

<h1>Validate book issue form</h1>

<hr>

<form method="" action="" name="reg\_form" onsubmit="return validate()">

<table>

<tr>

<td><label>First Name: </label></td>

<td>

<input type="text" name="fname" placeholder="First Name">

</td>

</tr>

<tr>

<td><label>Last Name: </label></td>

<td>

<input type="text" name="lname" placeholder="Last Name">

</td>

</tr>

<tr>

<td><label>Address: </label></td>

<td>

<input type="textarea" size="50" name="address" placeholder="Address">

</td>

</tr>

<tr>

<td><label>Gender: </label></td>

<td>

<input type="radio" name="gender" value="male">Male

<input type="radio" name="gender" value="femele">Female

</td>

</tr>

<tr>

<td><label>Email Id: </label></td>

<td>

<input type="email" name="email" placeholder="example@gmail.com">

</td>

</tr>

<tr>

<td><label>Mobile: </label></td>

<td>

<input type="number" name="mobile">

</td>

</tr>

<tr>

<td><label>BOOKS: </label></td>

<td>

<select name="Books">

<option value="select Books">select Books</option>

<option value="HTML">HTML</option>

<option value="CSS">CSS</option>

<option value="JavaScript">JAVASCRIPT</option>

<option value="Java">JAVA</option>

</select>

</td>

</tr>

<tr>

<td>

</td>

<td>

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

<input type="reset" name="reset" value="Reset">

</td>

</tr>

</table>

</form>

<script>

function validate() {

var fname = document.reg\_form.fname;

var lname = document.reg\_form.lname;

var address = document.reg\_form.address;

var gender = document.reg\_form.gender;

var email = document.reg\_form.email;

var mobile = document.reg\_form.mobile;

var Books = document.reg\_form.Books;

if (fname.value.length <= 0) {

alert("Name is required");

return false;

}

if (lname.value.length <= 0) {

alert("Last Name is required");

return false;

}

if (address.value.length <= 0) {

alert("Address is required");

return false;

}

if (gender.value.length <= 0) {

alert("Gender is required");

return false;

}

if (email.value.length <= 0) {

alert("Email Id is required");

return false;

}

if (mobile.value.length <= 0) {

alert("Mobile number is required");

return false;

}

if (Books.value == "select course") {

alert("Books is required");

return false;

}

return false;

}

</script>

</body>

</html>

**Practical 17**

**Aim: Write a code to implement a dynamic web page for adding and deleting elements.**

**HTML CODE:**

<!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>PO17</title>

<style>

\*{

font-size: 25px;

}

h1,

h2 {

color: hotpink;

display: flex;

justify-content: center;

}

#mybutton {

display: block;

margin: 0 auto;

}

#innerdiv {

display: flex;

flex-direction: column;

justify-content: center;

align-items: center;

}

#myList {

align-content: center;

}

#deldiv{

display: block;

width: 900px;

align-items: center;

text-align: center;

}

li{

list-style: none;

}

button{

font-weight: 900;

border-radius: 8px;

}

button:hover{

opacity: 0.7;;

}

</style>

</head>

<body>

<h1>

Saurabh Yadav<br>

</h1>

<div id="innerdiv"></div>

<h2>click on "click me" to add element</h2>

<button id="mybutton">

click me

</button><b><br></b>

<div id="deldiv">

<h3>Elemet will delete one-by-one after clicking on "Delete" button</h3>

<ul id="myList">

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ul>

<button onclick="myFunction()">Delete</button>

</div>

<script>

document.getElementById("mybutton").

addEventListener("click", function () {

document.getElementById("innerdiv").

innerHTML = "<h3>This is a Added element</h3>";

});

function myFunction() {

const list = document.getElementById("myList");

list.removeChild(list.firstElementChild);

}

</script>

</body>

</html>

**Practical 18**

**Aim: Write a JavaScript program which initializes jQuery and accesses various properties of html tags using jQuery methods.**

**HTML CODE:**

<!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>PO18</title>

<style>

p {

font-size: 20px;

color: red;

}

body {

text-align: center;

}

#panel,

#flip {

padding: 5px;

text-align: center;

background-color: #e5eecc;

border: solid 1px #c3c3c3;

}

#panel {

padding: 50px;

display: none;

}

span{

display: block;

margin: 0px 20px;

}

</style>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

</head>

<body>

<p>If you click on me, I will disappear.</p>

<span>Name: <input type="text" id="test"></span>

<button>Show </button>

<div id="flip">Click to slide down panel</div>

<div id="panel">Hello world</div>

<script>

$(document).ready(function () {

$("p").click(function () {

$(this).hide();

});

});

$(document).ready(function () {

$("button").click(function () {

alert("Value: " + $("#test").val());

});

});

$(document).ready(function () {

$("#flip").click(function () {

$("#panel").slideDown("slow");

});

});

</script>

</body>

</html>

**Practical 19**

**Aim: Write a code to read and update the value of textbox using jQuery.**

**HTML CODE:**

<!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>PO19</title>

<style>

button {

height: 50px;

width: 200px;

}

body {

text-align: center;

}

</style>

<script

src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

</head>

<body>

<p>Input Field: <input type="text" name="userInput" placeholder="click

to add text">

</p>

<button id="set">

click to Add text

</button>

<script>

$(document).ready(function () {

$("#set").click(function () {

$("input:text").val("Hello World!");

});

});

</script>

</body>

</html>

**Practical 20**

**Aim:**

1. **Write a jQuery function to find a maximum of three numbers taken from the user.**
2. **Print date and time on click of a button using the html method of jQuery**

**HTML CODE:**

<!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>PO20</title>

<!-- CSS -->

<style>

@import url('https://fonts.googleapis.com/css2?family=Koulen&display=swap');

\*{

box-sizing: border-box;

font-size: 20px;

font-family: 'Koulen', cursive;

}

#one{

display: flex;

justify-content: center;

margin-top: 300px;

}

div{

background: linear-gradient(to bottom,red, orange,yellow,white);

display: block;

width: 500px;

margin: auto;

border-radius: 12px;

padding: 30px;

}

input[type=number]::-webkit-inner-spin-button,

input[type=number]::-webkit-outer-spin-button {

-webkit-appearance: none;

margin: 0;

}

.NumberInput{

width: 100%;

text-align: right;

text-transform: uppercase;

border: 2px solid green;

height: 40px;

margin: 10px 0px;

padding: 10px;

border-radius: 8px;

}

td{

color: white;

}

button{

background: linear-gradient(to left, red, orange, yellow,white);

color: black;

font-size: 25px;

font-weight: 400;

border-radius: 8px;

margin-top: 10px;

cursor: pointer;

}

button:hover{

transition-delay: 3s;

background: linear-gradient(to left, white, yellow, orange, red);

}

p{

color: red;

font-size: 20px;

}

</style>

<!-- Jquery CDN -->

<script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk=" crossorigin="anonymous"></script>

</head>

<body>

<div id="one">

<div>

<table>

<tr>

<td>First Number :</td>

<td> <input type="number" name="a" id="first" placeholder="Enter first number" class="NumberInput" /> </td>

</tr>

<tr>

<td>Second Number :</td>

<td> <input type="number" name="b" id="second" placeholder="Enter second number" class="NumberInput" /> </td>

</tr>

<tr>

<td>Third Number :</td>

<td> <input type="number" name="c" id="third" placeholder="Enter third number" class="NumberInput" /> </td>

</tr>

<tr style="text-align: center;">

<td colspan="2"> <button onclick="LargestNum()">CHECK</button> </td>

</tr>

<tr style="text-align: center;">

<td colspan="2"> <button onclick="DisplayDateTime()">SHOW DATE TIME</button> </td>

</tr>

</table>

<p id="num"></p>

</div>

</div>

<script>

function LargestNum(){

num1 = $("#first").val();

num2 = $("#second").val();

num3 = $("#third").val();

var array = [num1,num2,num3];

var largest = Math.max.apply( null, array)

console.log(largest)

$("#num").html(largest + " is the largest numbr.");

}

function DisplayDateTime(){

var date = new Date()

$("#num").html(date);

}

</script>

</body>

</html>

**Practical 21**

**Aim: Write JavaScript code to validate book issue form using jQuery validate.**

**HTML CODE:**

<!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>Document</title>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://cdn.jsdelivr.net/jquery.validation/1.16.0/jquery.validate.min.js"></script>

<script src="https://cdn.jsdelivr.net/jquery.validation/1.16.0/additional-methods.min.js"></script>

<style>

body{

text-align: center;

font-size: 15px;

}

form{

font-size: 25px;

color: black;

font-weight: bolder;

}

fieldset{

background: aquamarine;

align-items: center;

text-align: center;

width: 80%;

border: 4px solid red;

}

table{

width: 80%;

margin: 100px auto;

}

table tr{

width: 200px;

}

table tr td{

background: rgb(1, 177, 118);

width: 200%;

padding: 15px;

}

input{

height: 30px;

width: 300px;

}

input[type=submit]{

width: auto;

height: auto;

padding: 8px;

font-size: 25px;

margin: 10px auto;

background-color: aquamarine;

border: none;

font-weight: bold;

text-transform: uppercase;

}

input[type=submit]:hover{

opacity: 0.6;

}

label{

color: blue;

}

.pre\_label{

color: black;

}

</style>

<script>

$().ready(function () {

$("#bookissu").validate({

rules: {

firstname: "required",

lastname: "required",

address: {

required: true,

minlength: 2

},

email: {

required: true,

email: true

},

book: {

required: true,

text: true

},

agree: "required"

},

messages: {

firstname: "Please enter your firstname",

lastname: "Please enter your lastname",

address: {

required: "Please enter a address",

minlength: "Your address must consist of at least 2 characters"

},

}

});

});

</script>

</head>

<body>

<form class="cmxform" id="bookissu" method="get" action="form-handler.html" autocomplete="off">

<fieldset>

<legend>BOOK Issue Form</legend>

<table>

<tr>

<td>

<label for="firstname" class="pre\_label">First Name</label>

</td>

<td>

<input id="firstname" name="firstname" type="text"></input>

</td>

</tr>

<tr>

<td>

<label for="lastname" class="pre\_label">Last Name</label>

</td>

<td>

<input id="lastname" name="lastname" type="text"></input>

</td>

</tr>

<tr>

<td>

<label for="address" class="pre\_label">Address</label>

</td>

<td>

<input id="address" name="address" type="text"></input>

</td>

</tr>

<tr>

<td>

<label for="email" class="pre\_label">Email</label>

</td>

<td>

<input id="email" name="email" type="email"></input>

</td>

</tr>

<tr>

<td>

<label for="text" class="pre\_label">Book Name</label>

</td>

<td>

<input id="book" name="book" type="book"></input>

</td>

<tr>

<td colspan="2">

<input class="submit" type="submit" value="submit">

</td>

</tr>

</table>

</fieldset>

</form>

</body>

</html>