**DEPARTMENT OF COMPUTER APPLICATION**

**TKM COLLEGE OF ENGINEERING**

**KOLLAM – 691005**

Logo

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**20MCA133 – WEB PROGRAMMING LAB**

PRACTICAL RECORD BOOK

First Semester MCA

2021-2022

**Submitted by:**

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ROLL NO : TKM21MCA-2026

**DEPARTMENT OF COMPUTER APPLICATION**

**TKM COLLEGE OF ENGINEERING**

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**Certificate**

This is a bonafide record of the work done by KANNAN R R (TKM21MCA-2026) in the First Semester in Web ProgrammingCourse(20MCA133) towards the partial fulfillment of the degree of Master of Computer Applications during the academic year 2021-2022

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Staff Member in-charge Examiner

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**HTML (HYPERTEXT MARKUP LANGUAGE)**

HTML is the language for publishing web pages on the WWW .It is a Document

Description Language. HTML is NOT a programming language like C/C++/C#/Java, which is

used to implement programming algorithm An HTML element is defined by a start tag, some

content, and an end tag:Content goes here.. The HTML element is everything from the start tag

to the end tag:

<h1>My First Heading</h1>

<p>My first paragraph.</p>

HTML tables allow web developers to arrange data into rows and columns. The

<table> tag defines an HTML table.e. Each table row is defined with a <tr> tag. Each table

header is defined with a <th> tag. Each table data/cell is defined with a <td> tag. By default,

the text in elements <th> are bold and centered. By default, the text in elements <td> are regular

and left aligned.

HTML **lists** allow web developers to group a set of related items in lists. HTML lists

allow web developers to group a set of related items in lists. An ordered list starts with the tag.

Each list item starts with the tag. The list items will be marked with numbers by default.HTML

also supports description lists. A description list is a list of terms, with a description of each

term.The tag defines the description list, the tag defines the term (name), and the tag describes

each term.

An HTML **form** is used to collect user input. The user input is most often sent to a

server for processing. The HTML element is used to create an HTML form for user input.The

element is a container for different types of input elements, such as: text fields, checkboxes,

radio buttons, submit buttons, etc. The HTML element is the most used form element. An

element can be displayed in many ways, depending on the type attribute. The tag defines a

label for many form elements. The defines a radio button. The defines a checkbox. Checkboxes

let a user select ZERO or MORE options of a limited number of choices. The defines a button

for submitting the form data to a form-handler. The form-handler is typically a file on the server

with a script for processing input data. The formhandler is specified in the form's action

attribute

**CSS (CASCADING STYLE SHEET)**

**Cascading Style Sheets (CSS)** is a style sheet language used for describing the presentationof a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout,

colours, and fonts. This separation can improve content accessibility, provide more flexibility

and control in the specification of presentation characteristics, enable multiple web pages to

share formatting by specifying the relevant CSS in a separate .css file which reduces

complexity and repetition in the structural content as well as enabling the .css file to be cached

to improve the page load speed between the pages that share the file and its formatting.

There are 3 ways to implement CSS in a HTML Page, they are :

1.INLINE CSS

2.INTERNAL CSS

3.EXTERNAL CSS

**PROGRAM NO : 1**

**AIM** :

Model a simple HTML file to demonstrate the use of different tags

**DESIGN** :

**Step 1 :** Create html page containing basic tags

**Step 2 :** include style if needed

**PROGRAM CODE** :

Program1CO1

<html>

<head>

<title>My college</title>

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

</head>

<body>

<header style="background-color: #37487a;color:white;">

<center>

<div>

<h1>TKM College of Engineering</h1>

<h2>Department of MCA</h2>

<h3>2021-22 Batch</h3>

</div>

</center>

</header><br>

<div>

<div style="border:1px solid black;width: 30%;height:320px;float: left;"></div>

<div style="border:1px solid black;width: 60%;float: right;height:320px;">

<ul>

<div style="background-color: rgb(89, 207, 89);width:70%;border-radius: 10px;;margin-bottom:20px">

<center>

<li><u>Advanced Software Engineering</u> [ <abbr title="ASE">ASE</abbr> ]</li>

<p><i>Classes contains details about ASE</i></p>

</center>

</div>

<div style="background-color: rgb(218, 100, 100);width:70%;border-radius: 10px;margin-bottom:20px">

<center>

<li><u>Advanced Data Structures</u> [ <abbr>ADC</abbr> ]</li>

<p><i>Classes contains details about ADC</i></p>

</center>

</div>

<div style="background-color: rgb(61, 222, 228);width:70%;border-radius: 10px;margin-bottom:20px">

<center>

<li><u>Python</u> [ <abbr>Py</abbr> ]</li>

<p><i>Classes contains details about Python</i></p>

</center>

</div>

<div style="background-color: rgb(75, 105, 240);width:70%;border-radius: 10px;margin-bottom:20px">

<center>

<li><u>Mathematics</u> [ <abbr>Py</abbr> ]</li>

<p><i>Classes contains details about Mathematics</i></p>

</center>

</div>

</ul>

</div>

</div>

<div style="width: 100%;float: left;margin-top:20px">

<footer style="border:1px solid black;background-color: black;color: white;height:100px;">

<center>

<p style="padding: 20px;">TKMCE, © 2020. All rights reserved.</p>

</center>

</footer>

</div>

</body>

</html>

**OUTPUT :**

**Graphical user interface, application

Description automatically generated**

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 2**

**AIM** :

Create a HTML file to link to different HTML page which contains images, tables, and also link within a page

**DESIGN** :

**Step 1 :** Create main html page which shows general information

**Step 2 :** include links for contact details and Accademic details

**Step 3 :** Create pages for contact details and accademic details

**PROGRAM CODE** :

Program2CO1.html

<html>

<style>

.col{

border: 1px solid rgb(142, 174, 235);

background-color: rgb(142, 174, 235);

border-right: 1px solid darkgreen;}

.inner{

text-align: center;}

.col3{

background-color: rgb(172, 161, 99);}

.col4{

background-color: rgb(224, 211, 135);}

</style>

<head>

<title>My college</title>

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

</head>

<body>

<table width="70%" align="center" style="background-color: rgb(142, 174, 235)">

<tr>

<td class="col"><a href="Program2CO1.html">General Information</a></td>

<td class="col"><a href="AccDetails.html">Accademic Information</a></td>

<td class="col"><a href="Contact.html">Contact

Details</a></td>

</tr>

</table>

<table width="70%" align="center" cellpadding="10px">

<tr>

<td class="col3"><b>Picture : </b></td>

<td colspan="2" class="col4"><center><img src="user.png" width="20%"></center></td>

</tr><tr>

<td class="col3"><b>Graduation : </b></td>

<td colspan="2" class="col4"> Bsc Computer Science</td>

</tr><tr>

<td class="col3"><b>Post Graduation : </b></td>

<td colspan="2" class="col4">MCA</td>

</tr><tr>

<td class="col3"><b>Hobbies : </b></td>

<td colspan="2" class="col4">Animie</td>

</tr><tr>

<td class="col3"><b>Aspiration : </b></td>

<td colspan="2" class="col4">Peace</td>

</tr></table>

</body>

</html>

Contact.html

<html>

<style>

.col{

border: 1px solid rgb(142, 174, 235);

background-color: rgb(142, 174, 235);

border-right: 1px solid darkgreen;}

.col2{

border: 1px solid rgb(142, 174, 235);}

</style>

<head>

<title>My college</title>

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

<tr>

</head>

<body>

<table width="70%" align="center" style="border: 1px solid black;">

<td class="col"><a href="Program2CO1.html">General Information</a></td>

<td class="col"><a href="AccDetails.html">Accademic Information</a></td>

<td class="col"><a href="Contact.html">Contact Details</a></td>

</tr>

</table>

<center>

<div style="width:70%;">

<h2 style="float:left;">Contact details</h2></div></center>

<br><br><br><br><hr>

<table width="70%" align="center" cellpadding="10px"><tr>

<td class="col2">Mobile No :</td>

<td class="col2" colspan="2">9495758577</td>

</tr><tr>

<td class="col2">Address :</td>

<td class="col2" colspan="2">Chirayinkeezhu ,Trivandrum</td>

</tr>

</table>

</body>

</html>

AccDetails.html

<html>

<style>

.col{

border: 1px solid rgb(142, 174, 235);

background-color: rgb(142, 174, 235);

border-right: 1px solid darkgreen;}

.col1{

background-color: rgb(61, 126, 72);}

.col2{

border: 1px solid rgb(142, 174, 235);}

</style>

<head>

<title>My college</title>

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

</head>

<body>

<table width="70%" align="center" style="border: 1px solid black;">

<tr>

<td class="col"><a href="Program2CO1.html">General Information</a></td>

<td class="col"><a href="AccDetails.html">Accademic Information</a></td>

<td class="col"><a href="Contact.html">Contact Details</a></td>

</tr>

</table>

<center>

<div style="width:70%;">

<h2 style="float:left;">Accademic details</h2>

</div>

</center>

<br><br><br><br>

<hr>

<table width="70%" align="center" cellpadding="10px">

<tr>

<td class="col1">Stream</td>

<td class="col1" colspan="2">College</td>

</tr>

<tr>

<td class="col2">MCA</td>

<td class="col2" colspan="2">TKM College Of Engineering</td>

</tr>

</table>

</body>

</html>

**OUTPUT** :

**Program2CO1.html**

Graphical user interface, table

Description automatically generated

**AccDetails.html**

Graphical user interface, text, application

Description automatically generated

**Contact.html**

Graphical user interface, text, application, email

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 3**

**AIM** :

Create a HTML page with different types of frames such as floating frame, navigation frame & mixed frame.

**DESIGN :**

**Step 1 :** Create main html page which has links to other pages containing other types of frames

**Step 2 :** Create one page implementing Floating frames

**Step 3 :** Create one page implementing Mixed frames

**Step 3 :** Create one page implementing Navigation frames

**PROGRAM CODE** :

Frames.html

<html>

<head>

<title>My college</title>

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

</head>

<frameset cols="20%,50%">

<frame name="a" src="Navi.html" ></frame>

<frame name="b" ></frame>

</frameset>

</html>

Navi.html

<html>

<style>

.nav{

background-color: #f9f2ac;}

</style>

<head>

<title>My college</title>

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

</head>

<body>

<a href="floating.html" target="b"><div class="nav">Floating</div></a>

<a href="Mixed.html" target="b"><div class="nav">Mixed</div></a>

</body>

</html>

Floating.html

<html>

<head>

<title>My college</title>

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

</head>

<body style="background-color: rgb(197, 129, 177);">

<center><iframe width="60%" src="contact.html">

</iframe></center>

</body>

</html>

Contact.html

<html>

<head>

<title>My college</title>

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

</head>

<body style="background-color: rgb(94, 104, 194);">

<center><h1>Test</h1></center>

</body>

</html>

Navigate.html

<html>

<style>

.nav{

background-color: #f9f2ac;

margin-bottom: 10px ;

padding: 20px;}

</style>

<head>

<title>My college</title>

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

</head>

<body>

<a href="https://tkmce.ac.in/" target="navi"><div class="nav">TKM</div></a>

<a href="https://www.cet.ac.in/" target="navi"><div class="nav">CET</div></a>

</body>

</html>

NavigationFrame.html

<html>

<style>

.nav

{background-color: #f9f2ac;

margin-bottom: 10px ;

padding: 20px;}

</style>

<head>

<title>My college</title>

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

</head>

<frameset cols="20%,80%">

<frame src="Navigate.html"></frame>

<frame name="navi"></frame>

</frameset>

</html>

**OUTPUT** **:**

**Frames.html**

Graphical user interface, application

Description automatically generated

**Floating.html**

Chart

Description automatically generated with medium confidence

**Mixed.html**

Chart, treemap chart

Description automatically generated

**NavigationFrame.html**

Graphical user interface

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 4**

**AIM** :

Analyze CSS by applying the different styles using inline, external & internal style sheets in a HTML file.

**DESIGN :**

**Step 1 :** Create main html page which has some common tags

**Step 2 :** Add some internal Styles

**Step 3 :** Add some inline styles

**Step 3 :** Create one external style sheet file and add link to the html file

**PROGRAM CODE** :

RegForm.html

<html>

<head>

<title>My college</title>

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

<link rel="stylesheet" href="Reg.css">

<style>

.input{

border-radius: 5px;

border:0px solid #df9c70;

padding:10px;

float: left;

width: 100%;}

.button{

padding: 10px;

width: 75%;

border-radius: 20px;

border:1px solid rgb(94, 155, 94);

background-color: rgb(94, 155, 94);

color: white;}

p{

font-family:Sans-serif;

font-weight: bold;}

.button,.input:hover{

border:1px solid green;}

</style>

</head>

<body><br><br><br><br>

<center>

<div class="outer">

<h2><p>Registration form</p></h2>

<form>

<table>

<tr>

<td><input type="text" placeholder="First Name" class="input"/></td>

<td><input type="text" placeholder="Last Name" class="input"/></td></tr><tr>

<td><p>Mobile Number :</p></td>

<td><input type="number" placeholder="Number" class="input"/></td></tr><tr>

<td><p>Date Of Birth :</p></td>

<td><input type="date" class="input"></td></tr><tr>

<td><p>Gender :</p></td>

<td><input type="radio" value="Male" id="male" checked="true">

<label for="male">Male</label><br>

<input type="radio" value="Female" id="male">

<label for="male">Female</label><br></td></tr>

<tr><td><p>Languages Known :</p></td>

<td><input type="checkbox" value="c" id="c" checked="true">

<label for="c">C</label><br>

<input type="checkbox" value="c++" id="c++">

<label for="c++">C++</label><br>

<input type="checkbox" value="p" id="p">

<label for="p">Python</label><br></td></td></tr>

<tr><td colspan="2"><textarea cols="50" rows="3" placeholder="Address" class="input"></textarea></td>

</tr>

<tr>

<td><p>Select Country : </p></td>

<td><select class="input">

<option value="" ></option>

<option value="India" >India</option>

</select></td> </tr>

<tr>

<td><p>Select State : <p></td>

<td><select class="input">

<option value="" ></option>

<option value="Kerala" >Kerala</option>

</select></td>

</tr>

<tr>

<td><p>Upload Photo : </p></td>

<td><input type="file" placeholder="Number" class="input"/></td>

</tr>

<tr>

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

<td><input type="submit" value="Submit" class="button" style="float:right;"/></td>

</tr>

</table>

</div>

</form>

</center>

</body>

</html>

Reg.css

td

{

padding:10px;

margin:10px;

width:50%;

}

.outer{

width:28%;

padding:20px;

border-radius:20px;

background-color:#f29455;

}

body

{

background-color:#CCCCCC;

}

Graphical user interface, website

Description automatically generated**OUTPUT :**

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 5**

**AIM** :

Demonstrate a registration form using HTML.

**DESIGN :**

**Step 1 :** Create main html page which has various types of form elements

**Step 2 :** Add some test boxes,text area etc

**Step 3 :** Add some checkboxes,radio buttons and apply some styles id needed

**Step 3 :** Create a submit button and reset button

**PROGRAM CODE** :

RegForm.html

<html>

<head>

<title>My college</title>

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

<link rel="stylesheet" href="Reg.css">

<style>

.input{

border-radius: 5px;

border:0px solid #df9c70;

padding:10px;

float: left;

width: 100%;}

.button{

padding: 10px;

width: 75%;

border-radius: 20px;

border:1px solid rgb(94, 155, 94);

background-color: rgb(94, 155, 94);

color: white;}

p{

font-family:Sans-serif;

font-weight: bold;}

.button,.input:hover{

border:1px solid green;}

</style>

</head>

<body><br><br><br><br>

<center>

<div class="outer">

<h2><p>Registration form</p></h2>

<form>

<table><tr>

<td><input type="text" placeholder="First Name" class="input"/></td>

<td><input type="text" placeholder="Last Name" class="input"/></td></tr><tr>

<td><p>Mobile Number :</p></td>

<td><input type="number" placeholder="Number" class="input"/></td></tr><tr>

<td><p>Date Of Birth :</p></td>

<td><input type="date" class="input"></td></tr>

<tr><td><p>Gender :</p></td>

<td><input type="radio" value="Male" id="male" checked="true">

<label for="male">Male</label><br>

<input type="radio" value="Female" id="male">

<label for="male">Female</label><br></td></tr>

<tr><td><p>Languages Known :</p></td>

<td><input type="checkbox" value="c" id="c" checked="true">

<label for="c">C</label><br>

<input type="checkbox" value="c++" id="c++">

<label for="c++">C++</label><br>

<input type="checkbox" value="p" id="p">

<label for="p">Python</label><br></td></td>

</tr>

<tr>

<td colspan="2"><textarea cols="50" rows="3" placeholder="Address" class="input"></textarea></td>

</tr>

<tr>

<td><p>Select Country : </p></td>

<td><select class="input">

<option value="" ></option>

<option value="India" >India</option>

</select></td> </tr>

<tr>

<td><p>Select State : <p></td>

<td><select class="input">

<option value="" ></option>

<option value="Kerala" >Kerala</option>

</select></td>

</tr>

<tr>

<td><p>Upload Photo : </p></td>

<td><input type="file" placeholder="Number" class="input"/></td>

</tr>

<tr>

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

<td><input type="submit" value="Submit" class="button" style="float:right;"/></td>

</tr>

</table>

</div>

</form>

</center>

</body>

</html>

Reg.css

td

{

padding:10px;

margin:10px;

width:50%;

}

.outer{

width:28%;

padding:20px;

border-radius:20px;

background-color:#f29455;

}

body

{

background-color:#CCCCCC;

}

**OUTPUT :**

Graphical user interface, website

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**JAVASCRIPT**

JavaScript often abbreviated JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. Over 97% of websites use JavaScript on the client side for web page behaviour, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on users' devices.

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and firstclass functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

The ECMAScript standard does not include any input/output (I/O), such as networking, storage, or graphics facilities. In practice, the web browser or other runtime system provides JavaScript APIs for I/O.

JavaScript engines were originally used only in web browsers, but are now core components of some servers and a variety of applications. The most popular runtime system for this usage is Node.js.

Although Java and JavaScript are similar in name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design.

**PROGRAM NO : 6**

**AIM :**

Create a HTML page to explain the use of various predefined functions in a string and math object in java script.

**DESIGN :**

Step 1: Create a simple page with input fields

Step 2: Add in functions to calculate math and string function using JavaScript

Step 3: Result should be returned in a button click

**PROGRAM CODE :**

<html>

<body>

<table>

<tr>

<tr>

<td>Select String or Math</td>

<td>

<select onchange="radio()" id="opts">

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

<option value="s">String</option>

<option value="m">Math</option>

</select> </td> </tr><tr>

<td rowspan="2"> Select sub function </td>

<td>

<select onchange="viewn2()" id="opt2">

<option value="">Select string fn</option>

<option value="Slice">Slice</option>

<option value="Substring">Substring</option>

<option value="substr">substr</option>

<option value="replace">replace</option>

<option value="Upper">Upper</option>

<option value="Lower">Lower</option>

<option value="Concat">Concat</option>

<option value="trim">trim</option>

</select>

</td>

MathString.html

</tr>

<tr>

<td>

<select onchange="viewn2()" id="opt" style="visibility: hidden;">

<option value="">select Math fn</option>

<option value="power">Power</option>

<option value="abs">Absolute Value</option>

<option value="floor">Floor</option>

<option value="ceil">Ceil</option>

<option value="max">Max</option>

<option value="min">Min</option>

<option value="log">log</option>

<option value="random">Random</option>

</select>

</td>

</tr>

<tr>

<td rowspan="2"> Enter input </td>

<td>

<input type="text" id="n1" placeholder="Enter first input">

</td>

</tr>

<tr>

<td>

<input type="text" id="n2" disabled="disabled" placeholder="Enter second input">

</td>

</tr>

</tr>

<tr>

<td>

<button onclick="cal()">Run</button>

</td>

</tr>

<tr>

<td>

<input type="text" id="ans" placeholder="Ans">

</td>

</tr>

</table>

<script>

function viewn2() {

var ops = document.getElementById("opt").value;

var ops2 = document.getElementById("opt2").value;

if (ops == "power" || ops == "max" || ops == "min" || ops2 == "replace" || ops2 == "Concat") {

document.getElementById("n1").setAttribute("style", "visibility: visible;");

document.getElementById("n2").removeAttribute("disabled");

document.getElementById("n1").removeAttribute("disabled");

} else {

document.getElementById("n2").setAttribute("disabled", "disabled");

}

if (ops == "random") {

document.getElementById("n1").setAttribute("disabled", "disabled");

document.getElementById("n2").setAttribute("disabled", "disabled");

}

}

function radio() {

var ops = document.getElementById("opts").value;

switch (ops) {

case "m":

document.getElementById("opt2").setAttribute("style", "visibility: hidden;");

document.getElementById("opt").setAttribute("style", "visibility: visible;");

document.getElementById("opt2").value = "";

break;

case "s":

document.getElementById("opt2").setAttribute("style", "visibility: visible;");

document.getElementById("opt").setAttribute("style", "visibility: hidden;");

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

break;

}

}

function cal() {

var n1 = document.getElementById("n1").value;

var n2 = document.getElementById("n2").value;

switch (document.getElementById("opt").value) {

case "power":

document.getElementById("ans").value = Math.pow(n1, n2);

break;

case "floor":

document.getElementById("ans").value = Math.floor(n1);

break;

case "ceil":

document.getElementById("ans").value = Math.ceil(n1);

break;

case "abs":

document.getElementById("ans").value = Math.abs(n1);

break;

case "max":

document.getElementById("ans").value = Math.max(n1, n2);

break;

case "min":

document.getElementById("ans").value = Math.min(n1, n2);

break;

case "log":

document.getElementById("ans").value = Math.log(n1);

break;

case "random":

document.getElementById("ans").value = Math.random();

break; }

switch (document.getElementById("opt2").value) {

case "Substring":

document.getElementById("ans").value = n1.substring(1, 3);

break;

case "substr":

document.getElementById("ans").value = n1.substr(1, 3);

break;

case "replace":

document.getElementById("ans").value = n1.replace(" ", n2);

break;

case "Upper":

document.getElementById("ans").value = n1.toUpperCase();

break;

case "Lower":

document.getElementById("ans").value = n1.toLowerCase();

break;

case "Concat":

document.getElementById("ans").value = n1.concat(" " + n2);

break;

case "trim":

document.getElementById("ans").value = n1.trim();

break;

case "Slice":

document.getElementById("ans").value = n1.slice(3);

break;

}

}

</script>

</body>

</html>

**OUTPUT**

Graphical user interface, application

Description automatically generated

Graphical user interface, application, Word

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 7**

**AIM**

Generate the calendar using JavaScript code by getting the year from the user.

**DESIGN**

**Step 1:** Create a simple page with input field for entering year

**Step 2:** On a button click bring up calendar for that year

**PROGRAM CODE**

<html>

<head>

</head>

<style>

td,

th {

border: 1px solid black;

padding: 5px;

}

#a {

border: 1px solid black;

padding: 5px;

width: 25%;

margin: 3px;

height: 290px;

display: inline-block;

}

#x {

height: 240px;

}

</style>

<body>

<center>

<input type="number" id="year" required>

<button onclick="cal()">Dislpay Calender</button>

<h1 id="y"></h1>

</center>

<br>

<script>

function daysInMonth(month, year) {

return new Date(year, month, 0).getDate();

}

function getDay(date) {

let day = date.getDay();

if (day == 0 || day == 7) day = 0;

return day;

}

function cal() {

var y = parseInt(document.getElementById("year").value);

if (document.getElementById("year").value != "") {

document.getElementById("y").innerHTML = y;

var months = ["January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"];

var x = 0;

var d = "<center><div>";

var all = "";

var table = "<tr><th>SUN</th><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</th><th>SAT</th></tr>";

var rows = "";

for (var s = 1; s <= 12; s++) {

var f = new Date(y, s - 1);

var col = "";

for (let z = 0; z < getDay(f); z++) {

col += "<td> </td>";

}

x = 0;

var cn = 0;

rows = "";

all = "";

d += "<div id='a'>"

for (var i = 0; i < 7; i++) {

rows += "<tr>";

if (x == 0) {

rows += col;

}

for (var j = 0; j < 7; j++) {

cn++;

if (cn == 1) {

j = getDay(f);

}

x++;

if (x > daysInMonth(s - 1, 2021)) {

break;

}

rows += "<td>" + x + "</td>";

}

rows += "</tr>";

}

all += "<div id='x'><table>" + table + rows + "</table></div>";

d += all + "<div style='float:right' id='b'><h2>" + months[s - 1] + "</h2></div></div>";

}

d += "</div></center>";

document.body.innerHTML += d;

}

}

</script>

</body>

</html>

**OUTPUT**

Calendar

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 8**

**AIM**

Create a HTML registration form and to validate the form using JavaScript code.

**DESIGN**

Step 1: Create a simple page with input field for basic details

Step 2: On a button click the input fields should be validated using JavaScript

**PROGRAM CODE**

FormVaL.html

<html>

<head>

</head>

<body>

<center>

<div style="border: 1px solid black;width:40%;padding:20px">

<table>

<tr><td>Enter Name : </td>

<td><input type="text" placeholder="Name" id="name" required="" /></td></tr><tr>

<td><p>Mobile Number :</p></td>

<td><input type="number" placeholder="number" required="" id="num" /></td></tr><tr>

<td><p>Email :</p></td>

<td><input type="text" placeholder="Email" required="" id="email" /></td> </tr><tr>

<td><p>Date Of Birth :</p>td>

<td><input type="date" class="input" id="dob" required=""></td></tr>

<tr>

<td><input type="text" placeholder="Username" required="" id="Username"></td>

<td><input type="text" placeholder="Password" required="" id="Password"></td></tr><tr>

<td colspan="2">

<center><button onclick="Validate()">Submit</button></center></td></tr>

</table>div>

<div style="visibility: hidden;width: 50px;color :white;background-color: green;" id="p">No Errors</div>

</center>

<script>

function Validate() {

var msg = "";

var error = 0;

var r = /^[A-Za-z]+$/;

var s = /^[!@#$%&\*()\_+=|<>?{}\\[\\]~-]$/;

var e = /^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/;

var name = document.getElementById("name");

var number = document.getElementById("num");

var dob = document.getElementById("dob");

var Username = document.getElementById("Username");

var pass = document.getElementById("Password");

var email = document.getElementById("email");

if (!r.test(name.value)) {

msg += "Name should be only alphabets\n";

error = 1; }

if (parseInt(dob.value.split('-')[0]) < 2020) {

msg += "Enter a valid date\n";

error = 1; }

if (number.value.toString().length != 10) {

msg += "Enter valid number\n";

error = 1;

if (!e.test(email.value)) {

msg += "Email is not valid\n";

error = 1; }

if (pass.value.toString().length < 8) {

msg += "Password should be more than 8 charaters\n";

error = 1; }

if (error == 1) {

alert(msg);

} else {

document.getElementById("p").style.visibility = "visible";

}

}

</script>

</body>

</html>

**OUTPUT**

Graphical user interface

Description automatically generated with medium confidence

Graphical user interface, application

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 9**

**AIM**

Evaluating JavaScript Event Handling for every click of a button to change the background color of a HTML page

**DESIGN**

Step 1: Create a simple page with input field for basic details

Step 2: On a button click the input fields should be validated using JavaScript

**PROGRAM CODE**

buttonclick.html

<html>

<head>

</head>

<body id="x" style="background-color: #605000;">

<button onclick="cal()">change</button>

<script>

function cal() {

c = Math.round(Math.random() \* 100000);

c = c + 605000;

var b = "background-color:#" + c;

document.getElementById("x").setAttribute("style", b);

}

</script>

</body>

</html>

**OUTPUT**

A picture containing shape

Description automatically generated

Shape

Description automatically generated with low confidence

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 10**

**AIM**

Create a HTML page to display a new image and text when the mouse comes over the existing content in the page using JavaScript Event Handling.

**DESIGN**

Step 1: Create a simple page with a picture and a text

Step 2: implement Hover function in the text and picture using JavaScript

**PROGRAM CODE**

hover.html

<html>

<head>

</head>

<body>

<img src="f1.jpg" width="700px" height="700px" onmouseover="cal()" onmouseleave="cal2()" id="w">

<h1 onmouseover="cal()" onmouseleave="cal2()" id="x">Happy</h1>

<script>

function cal() {

document.getElementById("w").setAttribute("src", "2.jpg");

document.getElementById("x").innerHTML = "Sad";

}

function cal2() {

document.getElementById("w").setAttribute("src", "1.jpg");

document.getElementById("x").innerHTML = "Happy";

}

</script>

</body>

</html>

**OUTPUT**

A picture containing graphical user interface

Description automatically generated

A picture containing graphical user interface

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 11**

**AIM**

Create a HTML page to show online exam using JavaScript.

**DESIGN**

Step 1: Create a html page with questions and options to select answer

Step 2: After the answers are selected in the click of a button score should be calculated

Step 3 : Score calculation is done in JavaScript

**PROGRAM CODE**

OnlineQuestion.html

<html>

<style>

td {

padding: 30px;

} </style>

<body>

<table>

<tr><td colspan="3">1 .'OS' computer abbreviation usually means??</td> </tr>

<tr>

<form id="q1">

<td><input type="radio" id="q1" name="fav\_language" value="0">   <label for="html">Order of Significance</label><br></td>

<td><input type="radio" id="q1" name="fav\_language" value="1">   <label for="html">Open Software</label><br></td>

<td><input type="radio" id="q1" name="fav\_language" value="0">   <label for="html">Operating System</label><br></td>

</form><tr>

<td colspan="3">1 . '.MOV' extension refers usually to what kind of file?</td></tr>

<tr>

<form id="q1">

<td><input type="radio" id="q2" name="fav\_language" value="1">   <label for="html">Image file</label><br></td>

<td><input type="radio" id="q2" name="fav\_language" value="0">   <label for="html">Animation/movie file</label><br></td>

<td><input type="radio" id="q2" name="fav\_language" value="0">   <label for="html">Audio file</label><br></td>

</form></tr>

<tr>

<td colspan="3">1 . '.MPG' extension refers usually to what kind of file?</td></tr>

<tr>

<form id="q1">

<td><input type="radio" id="q3" name="fav\_language" value="0">   <label for="html">Word Perfect Document file</label><br></td>

<td><input type="radio" id="q3" name="fav\_language" value="1">   <label for="html">MS Office document</label><br></td>

<td><input type="radio" id="q3" name="fav\_language" value="0">   <label for="html">Animation/movie file</label><br></td>

</form></tr>

<tr>

<td colspan="4"><button onclick="cal()">Submit</button></td></tr>

<tr>

<td colspan="2" style="border:1px solid black">Score</td>

<td colspan="1" style="border:1px solid black" id="ans"></td></tr></table>

<script>

function cal() {

var c = 0,

i = 0;

for (i = 1; i < 4; i++) {

if (document.querySelector('input[id = "q' + i + '"]:checked').value == 1) {

c++;

}

}

document.getElementById("ans").innerHTML = c \* 5;

}

</script>

</body>

</html>

**OUTPUT**

Graphical user interface, application

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PHP**

PHP (Hypertext Pre-processor) is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is a widely used open-source general purpose scripting language that is especially suited for web development and can be embedded into HTML. Instead of lots of commands to output HTML, PHP pages contain HTML with embedded code that does something. The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of PHP mode. What distinguishes PHP from something like client-side java script is that the code is executed on the server, generating HTML which is ten sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process your entire HTML file with PHP, and then there’s really no way that users can tell what you have up yourselves.

The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. PHP is mainly focused on server-side scripting, so you can do anything any other CGI program can do, such as collect form data, generate dynamic page content, or send and receive cookies.

**MYSQL**

MySQL is an open-source relational database management system (RDBMS). A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation). In 2010, when Oracle acquired Sun, Widenius forked the opensource MySQL project to create MariaDB.

**PROGRAM NO : 12**

**AIM**

Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format.

**DESIGN**

Step 1: Create a html page with header for displaying data from Database

Step 2: Include PHP code to fetch data from DB and display in HTML page in table

**PROGRAM CODE**

DispFromDB.html

<html>

<head>

</head>

<body>

<h2>Employe Details</h2>

<?php

$con=mysqli\_connect("localhost","root","","MCA");

$check="select \* from Employee";

$c=mysqli\_query($con,$check);

echo "<table border=1px><tr><th>Name</th><th>Job</th><th>Salary</th><th>Manager id</th></tr>";

if(mysqli\_num\_rows($c)!=0)

{

while($result=mysqli\_fetch\_array($c))

{

echo "<tr><td>{$result["name"]}</td>";

echo "<td>{$result["job"]}</td>";

echo "<td>{$result["salary"]}</td>";

echo "<td>{$result["mid"]}</td></tr>";

}

}

mysqli\_close($con);

?>

</body>

</html>

**OUTPUT**

Graphical user interface

Description automatically generated with medium confidence

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 13**

**AIM**

Outline a registration form using PHP and do necessary validations.

**DESIGN**

Step 1: Create a simple page with input field for basic details

Step 2: On a button click the input fields should be validated using PHP

**PROGRAM CODE**

DispFromDB.html

<html>

<head>

</head>

<body>

<center>

<div style="border: 1px solid black;width:40%;padding:20px">

<form method="POST">

<table><tr>

<td>Enter Name : </td>

<td><input type="text" placeholder="Name" name="name" /></td></tr>

<tr><td><p>Mobile Number :</p></td>

<td><input type="text" placeholder="number" name="num" /> </td>tr>

<tr><td><p>Email :</p>td>

<td><input type="text" placeholder="Email" name="email" /></td></tr>

<tr><td><input type="text" placeholder="Username" name="user"></td>

<td><input type="text" placeholder="Password" name="pass"> </td></tr>

<tr> <td colspan="2">

<center><input type="submit" name="s"></center>

</td>

</tr>

</table>

</form>

<?php

if(isset($\_POST["s"]))

{

$con=mysqli\_connect("localhost","root","","MCA");

$error=0;

$name=$\_POST["name"];

$username=$\_POST["user"];

$pass=$\_POST["pass"];

$num=$\_POST["num"];

$email=$\_POST["email"];

$C1=preg\_match("/[a-z]/",$pass);

$C2=preg\_match("/[A-Z]/",$pass);

$C3=preg\_match("/[0-9]/",$pass);

$C5=preg\_match("/[0-9]/",$num);

$C4=preg\_match("/^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/",$email);

if(!($C1 && $C2 && $C3) && !strlen($pass)<8)

{echo "Password not strong";

$error=1; }

?>

<br>

<?php

if(!($C5) && $num!="")

{echo "Enter number only in Number field";

$error=1;

if(strlen($num)!=10)

{echo "Movbile number can only be 10 digits";

$error=1; }

?>

<br>

<?php

if(!($C4) && $email!="")

{echo "Enter email in correct format";

$error=1;}

?>

<br>

<?php

if($username=="" || $pass=="" || $num=="" || $email=="" || $name=="")

{

echo "Enter all data";

$error=1; }

}

?>

</center>

</body>

</html>

**OUTPUT**

A picture containing diagram

Description automatically generated

Application

Description automatically generated with low confidence

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 14**

**AIM**

Compose Electricity bill from user input based on a given tariff using PHP.

**DESIGN**

Step 1: Create a simple page with input field for entering details like unit consumed and locality

Step 2: On a button click calculate the electricity bill amount considering the locality and unit slab

Step 3: Display the amount

**PROGRAM CODE**

ElectricityBill.html

<html>

<head>

</head>

<body>

<center>

<H2>ELECTRICITY BILL</H2>

<table>

<form method="POST">

<tr>

<td>Units consumed :</td>

<td> <input type="number" name="unit"></td>

<tr>

<tr>

<td>Meter Number : </td>

<td><input type="number" name="num"></td>

</tr>

<tr>

<td>Type of Area :</td>

<td> <select name="area">

<option value=""></option>

<option value="Rural">Rural</option>

<option value="urban">Urban</option>

<option value="surban">Sub-Urban</option>

</select></td>

</tr>

<tr>

<td colspan="2">

<center><input type="submit" name="s"></center>

</td>

</tr>

</form>

</table>

<?php

if(isset($\_POST["s"]))

{

$unit=$\_POST["unit"];

$area=$\_POST["area"];

$num=$\_POST["num"];

$amt=0;

if($area="Rural"){

$amt=$unit\*5;

}

else if($area="surban"){

$amt=$unit\*10;

}

else{

$amt=$unit\*15;

}

if($unit <= 100){

$amt=$amt+20;

}

else if($unit > 100 && $unit <= 300){

$amt=$amt+30;

}

else{

$amt=$amt+40;

}

echo "Meter number : ",$num,"<br>","Amount = ",$amt;

}

?>

</center>

</body>

</html>

**OUTPUT**

Chart

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 15**

**AIM**

Build a PHP code to store name of students in an array and display it using print\_r function. Sort and Display the same using asort & arsort functions.

**DESIGN**

Step 1: Create an html page to display student details

Step 2: Using PHP print the details using “print\_r” , “assort” & “arsort” functions.

**PROGRAM CODE**

StudentArray.html

<html>

<head>

</head>

<body>

<center>

<?php

$s=array("Gon","Kiliua","Hisoka","Jinn");

echo "<h2>Printing Array using print\_r</h2><br><h3>" ;

print\_r($s);

echo "</h3>" ;

echo "<br><br><h2>Sorted in ascending order</h2><br><h3>" ;

asort($s);

print\_r($s);

echo "</h3>" ;

echo "<br><br><h2>Sorted in descending order</h2> <br><h3>" ;

arsort($s);

print\_r($s);

echo "</h3>" ;

?>

</center>

</body>

</html>

**OUTPUT**

Graphical user interface, text, application

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 16**

**AIM**

Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

**DESIGN**

Step 1: Create a simple html page to display the names of the cricket players in table

Step 2: Using PHP iterate through the array and display in the table

**PROGRAM CODE**

CricketArray.html

<html>

<head>

</head>

<body>

<center>

<table border="1px" style="width:50%">

<tr>

<th>No :</th>

<th>Name</th>

</tr>

<?php

$s=array("Dhoni","Yuvraj","Sreesanth","Raina","Sachin");

foreach($s as $x=>$c)

{

echo "<tr><td><h3>$x</h3></td><td><h3>$c</h3></td></tr>";

}

?>

</table>

</center>

</body>

</html>

**OUTPUT**

Graphical user interface, application

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 17**

**AIM**

Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the result with proper headings

**DESIGN**

Step 1: Create a simple html page having input fields to accept data of books

Step 2: Using PHP insert the data into the database

Step 3: Fetch the data from the database and display in the html page with a matching book title

**PROGRAM CODE**

Bookviz.html

<html>

<head> </head>

<body>

<center>

<div>

<div style="width:47%;padding:20px;float:left">

<form method="POST">

<table>

<tr>

<td> Accession number : </td>

<td>

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

</td>

</tr>

<tr>

<td>

<p>Title :</p>

</td>

<td>

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

</td>

</tr>

<tr>

<td>

<p>Authors :</p>

</td>

<td>

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

<tr>

<td><p>Edition :</p></td>

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

<tr><td><p>Publisher :</p></td>

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

</tr>

<tr><td colspan="2">

<center><input type="submit" name="s"></center>

</td></tr>

</table>

</form>

<?php

if(isset($\_POST["s"]))

{

$con=mysqli\_connect("localhost","root","","MCA");

$title=$\_POST["title"];

$author=$\_POST["author"];

$pub=$\_POST["pub"];

$num=$\_POST["num"];

$edition=$\_POST["edition"];

$check="select id from book where id={$num}";

$c=mysqli\_query($con,$check);

if(mysqli\_num\_rows($c)==0)

{

$query="INSERT INTO book (title,author,publisher,edition) VALUES('{$title}','{$author}','{$pub}','{$edition}')";

mysqli\_query($con,$query);

}

else{

echo "Book already exists";

}

mysqli\_close($con);

}

?>

</div>

<div style="width:47%;padding:20px;float:left">

<form method="POST">

Title : <input type="text" name="title1">

<input type="submit" name="s2">

</form>

</div>

<?php

if(Isset($\_POST["s2"]))

{

$title=$\_POST["title1"];

$con=mysqli\_connect("localhost","root","","MCA");

$check="select \* from book where title='{$title}'";

$c=mysqli\_query($con,$check);

echo "<table border=1px><tr><th>Accession number</th><th>Title</th><th>Author</th><th>Publisher</th><th>Edition</th></tr>";

if(mysqli\_num\_rows($c)!=0)

{

while($result=mysqli\_fetch\_array($c))

{

echo "<tr><td>{$result["id"]}</td>";

echo "<td>{$result["title"]}</td>";

echo "<td>{$result["author"]}</td>";

echo "<td>{$result["publisher"]}</td>";

echo "<td>{$result["edition"]}</td></tr>";

}

}

else{

echo "Book doesnt't exists";

}

mysqli\_close($con);

}

?>

</div>

</center>

</body>

</html>

**OUTPUT**

Graphical user interface, application, Word

Description automatically generated

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED

**PROGRAM NO : 18**

**AIM**

Develop a web application for Airline Reservation System using any PHP framework (Laravel, CodeIgniter, Symfony, CakePHP etc.).

**DESIGN**

Step 1: Create the html file with necessary tags.

Step 2: Create the form for the inputs.

Step 3: Create the php file for connecting and retrieve data from the database.

Step 4: Return the data in proper format.

**PROGRAM CODE**

Insert.html

<?php

defined('BASEPATH') OR exit('No direct script access allowed');

class Login extends CI\_Controller {

public function index()

{

$this->load->view('login\_view');

}

public function process()

{

$user = $this->input->post('user');

$pass = $this->input->post('pass');

$this->load->model('Login\_model');

$validate=$this->Login\_model->index($user,$pass);

if($validate){

//declaring session

//$this->session->set\_userdata(array('user'=>$user));

$this->load->view('welcome\_view');

}

else{

$data['error'] = 'Your Account is Invalid';

$this->load->view('login\_view', $data);

}

}

public function logout()

{

//removing session

$this->session->unset\_userdata('user');

redirect("Login");

}

}

?>

Insert.html

Out.html

<!DOCTYPE html>

<html>

<head>

<title>Login Page</title>

</head>

<body>

<?php echo isset($error) ? $error : ''; ?>

<form method="post" action="Login/process">

<table cellpadding="2" cellspacing="2">

<tr>

<td><th>Username:</th></td>

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

</tr>

<tr>

<td><th>Password:</th></td>

<td><input type="password" name="pass"></td>

</tr>

<tr>

<td> </td>

<td><input type="submit" value="Login"></td>

</tr>

</table>

</form>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body>

Welcome

<br>

</body>

</html>

Read.php

<?php

defined('BASEPATH') OR exit('No direct script access allowed');

class Login\_Model extends CI\_Model{

public function index($user,$password){

$this->load->database();

$data=array(

'username'=>$user,

'pass'=>$password);

$query=$this->db->where($data);

$login=$this->db->get('tb\_login');

if($login!=NULL){

return $login->row();

}

}}

**OUTPUT :**

**RESULT :**

PROGRAM HAS SUCCESSFULLY EXECUTED AND OUTPUT OBTAINED