**EXPERIMENT-1**

**Design a form for Employee registration which includes all elements of form tags.**

<!DOCTYPE html>1

<html>

<head>

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

<style>

body{

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

background-color: pink;

}

.container {

padding: 50px;

background-color: lightblue;

}

input[type=text], input[type=password], textarea {

width: 100%;

padding: 15px;

margin: 5px 0 22px 0;

display: inline-block;

border: none;

background: #f1f1f1;

}

input[type=text]:focus, input[type=password]:focus {

background-color: orange;

outline: none;

}

div {

padding: 10px 0;

}

hr {

border: 1px solid #f1f1f1;

margin-bottom: 25px;

}

.registerbtn {

background-color: #4CAF50;

color: white;

padding: 16px 20px;

margin: 8px 0;

border: none;

cursor: pointer;

width: 100%;

opacity: 0.9;

}

.registerbtn:hover {

opacity: 1;

}

</style>

</head>

<body>

<form>

<div class="container">

<center> <h1> SEmployee Registeration Form</h1> </center>

<hr>

<label> Firstname </label>

<input type="text" name="firstname" placeholder= "Firstname" size="15" required />

<label> Middlename: </label>

<input type="text" name="middlename" placeholder="Middlename" size="15" required />

<label> Lastname: </label>

<input type="text" name="lastname" placeholder="Lastname" size="15"required />

<div>

<label>

Department :

</label>

<select>

<option value="Department">Department</option>

<option value="IT">IT</option>

<option value="Finance "> Finance </option>

<option value="Logistics">Logistics</option>

<option value="Engineering"> Engineering </option>

<option value="Marketing "> Marketing </option>

</select>

</div>

<div>

<label>

Gender :

</label><br>

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

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

<input type="radio" value="Other" name="gender"> Other

</div>

<label>

Phone :

</label>

<input type="text" name="country code" placeholder="Country Code" value="+91" size="2"/>

<input type="text" name="phone" placeholder="phone no." size="10"/ required>

Current Address :

<textarea cols="80" rows="5" placeholder="Current Address" value="address" required>

**EXPERIMENT-2**

**Write a HTML code to generate a class timetable and add external CSS to customize the properties of the font, background etc. (color, bold and font size)**

**CSS File: the file name is style.css**

body {

**background-color**: #ffffff;

    mix-blend-mode: darken;

}

header h1 {

**margin-top**: 10%;

**text-align**: center;

**color**: black;

**font-weight**: bold;

**font-family**: sans-serif;

}

table {

**margin-top**: 2%;

**width**: max-content;

**border**: 1px solid black;

**height**: 300px;

**margin-left**: 23%;

}

td {

**text-align**: center;

**border**: 1px solid black;

}

#blank {

**color**: #000;

**background-color**: #fff;

}

#s {

**font-weight**: 800;

**text-transform**: uppercase;

**font-family**: sans-serif;

**background-color**: #ffffff;

}

#seminar {

**font-weight**: 800;

**font-family**: sans-serif;

**background-color**: #ffffff;

**text-transform**: uppercase;

}

#sub {

**color**: black;

**font-family**: sans-serif;

**font-weight**: 400;

**background-color**: #ffffff;

}

#sub1 {

**background-color**: #fff;

}

#sub2 {

**color**: black;

**text-transform**: uppercase;

**background-color**: #ffffff;

}

#sub3 {

**background-color**: #ffffff;

**font-family**: sans-serif;

**font-weight**: 800;

}

#box1 {

**color**: cornflowerblue;

**font-family**: sans-serif;

**font-weight**: 800;

}

#box2 {

**color**: darkorange;

**font-weight**: 800;

**font-family**: sans-serif;

}

#box3 {

**color**: darkviolet;

**font-weight**: 800;

**font-family**: sans-serif;

}

#box4 {

**color**: green;

**font-weight**: 800;

**font-family**: sans-serif;

}

#box5 {

**color**: red;

**font-family**: sans-serif;

**font-weight**: 800;

}

#box6 {

**color**: hotpink;

**font-weight**: 800;

**font-family**: sans-serif;

}

#box7 {

**color**: blue;

**font-family**: sans-serif;

**font-weight**: 800;

}

**HTML Code**: the file name is index.html

<!DOCTYPE html>

<html lang="en">

<head>

<title>time table</title>

<meta charset="UTF-8">

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

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

</style>

</head>

<body>

<header>

<h1>COLLEGE TIME TABLE</h1>

</header>

<table>

<thead>

<tr>

<td id="sub1"> </td>

<td id="sub">8:30-9:30</td>

<td id="sub">9:30-10:30</td>

<td id="sub">10:30-11:30</td>

<td id="sub">11:30-12:30</td>

<td id="sub">12:30-2:00</td>

<td id="sub">2:00-3:00</td>

<td id="sub">3:00-4:00</td>

<td id="sub">4:00-5:00</td>

</tr>

</thead>

<tbody>

<tr>

<td id="sub">MONDAY</td>

<td id="blank">---</td>

<td id="box1">SUB1</td>

<td id="box2">SUB2</td>

<td id="box3">SUB3</td>

<td rowspan="6">L<br>U<br>N<br>C<br>H

<td id="box4">SUB4</td>

<td id="box5">SUB5</td>

<td id="s">counselling class</td>

</tr>

<tr>

<td id="sub">TUESDAY</td>

<td id="box1">SUB1</td>

<td id="box2">SUB2</td>

<td id="box3">SUB3</td>

<td id="blank">---</td>

<td id="box2">SUB2</td>

<td id="box2">SUB2</td>

<td id="sub2">library</td>

</tr>

<tr>

<td id="sub">WEDNESDAY</td>

<td id="box1">SUB1</td>

<td id="box2">SUB2</td>

<td id="box5">SWA</td>

<td id="blank">---</td>

<td colspan="3"id="sub3" >LAB</td>

</tr>

<tr>

<td id="sub">THURSDAY</td>

<td id="box1">SUB1</td>

<td id="box2">SUB2</td>

<td id="box3">SUB3</td>

<td id="blank">---</td>

<td id="box2">SUB2</td>

<td id="box2">SUB2</td>

<td id="sub2">library</td>

</tr>

<tr>

<td id="sub">FRIDAY</td>

<td id="box1">SUB1</td>

<td id="box2">SUB2</td>

<td id="box3">SUB3</td>

<td id="blank">---</td>

<td id="box4">SUB4</td>

<td id="box5">SUB5</td>

<td id="sub2">library</td>

</tr>

<tr>

<td id="sub">SATURDAY</td>

<td id="box1">SUB1</td>

<td colspan="3" id="seminar">seminar</td>

<td id="box4">SUB4</td>

<td id="box5">SUB5</td>

<td id="sub2">library</td>

</tr>

</tbody>

</table>

</body>

</html>

**EXPERIMENT-3**

**Use frames such that page is divided into 3 frames 20% on left to show contents of pages, 60% in center to show body of page, remaining on right to show remarks.**

<!DOCTYPE html>

<html>

<head>

<title>HTML Frames</title>

</head>

<frameset cols = "20%,60%,20%">

<frame name = "Content of pages" src = "/html/top\_frame.htm" />

<frame name = "Body of page" src = "/html/main\_frame.htm" />

<frame name = "Remarks" src = "/html/bottom\_frame.htm" />

<noframes>

<body>Your browser does not support frames.</body>

</noframes>

</frameset>

</html>

**EXPERIMENT – 4**

**Choose a country name option from selection box and display it in capital letters by applying CSS style such as color, bold and font size.**

**PROGRAM:**

<html>

<title>

country name as capital

</title>

<head>

<style> div.capstr

{

color: red; font-style: bold; font- size:12pt; text-transform: uppercase;

}

</style>

</head>

<body>

<select id="country" onchange="getcap();">

<option value="india">india </option>

<option value="sri lanka">sri lanka </option>

<option value="china">china </option>

<option value="london">london </option>

<option value="uk">uk </option>

</select>

<div class="capstr" id="capcountry"> </div>

<script type="text/javascript"> function getcap()

{

document.getElementById("capcountry").innerHTML = document.getElementById("country").value;

}

</script>

</div >

</body>

</html>

**EXPERIMENT-5**

**Write an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).**

**Inline**

<!DOCTYPE html>

<html>

<head>

<style>

selector {

CSS property: value;

}

</style>

</head>

**Internal**

<!DOCTYPE html>

<html>

<head>

<style>

p {

color: #33475B;

}

</style>

</head>

<body>

<h2>Internal CSS Example</h2>

<p>The default text color for the page is black. However I can change the color of every paragraph element on the page using internal CSS.</p>

<p>Using internal CSS, I only need to write one rule set to change the color of every paragraph elemnet.</p>

<p>With inline CSS, I'd have to add a style attribute to every single paragraph in my HTML.</p>

</body>

</html>

**External**

<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" type="text/css" rel="noopener" target="\_blank" href="mystyle.css">

</head>

<body>

<div>

<h1>External CSS Example</h1>

<p>In the external stylesheet, the div is styled to have a background color, text color, border, and padding.</p>

</div>

</body>

</html>

mystyle.css

div {

  background-color: #EAF0F6;

  color: #33475B;

  border: 3px solid #00A4BD;

  padding: 5px;

}

**EXPERIMENT-6**

**Create a student registration system page using HTML tags and apply box model using external CSS.**

HTML code for the Student Registration Form:

<html>

<head>

<script type="text/javascript" src="validate.js"></script>

</head>

<body>

<form action="#" name="StudentRegistration" onSubmit="return(validate());">

<table cellpadding="2" width="20%" bgcolor="99FFFF" align="center"

cellspacing="2">

<tr>

<td colspan=2>

<center><font size=4><b>Student Registration Form</b></font></center>

</td>

</tr>

<tr>

<td>Name</td>

<td><input type=text name=textnames id="textname" size="30"></td>

</tr>

<tr>

<td>Father Name</td>

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

size="30"></td>

</tr>

<tr>

<td>Postal Address</td>

<td><input type="text" name="paddress" id="paddress" size="30"></td>

</tr>

<tr>

<td>Personal Address</td>

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

id="personaladdress" size="30"></td>

</tr>

<tr>

<td>Sex</td>

<td><input type="radio" name="sex" value="male" size="10">Male

<input type="radio" name="sex" value="Female" size="10">Female</td>

</tr>

<tr>

<td>City</td>

<td><select name="City">

<option value="-1" selected>select..</option>

<option value="New Delhi">NEW DELHI</option>

<option value="Mumbai">MUMBAI</option>

<option value="Goa">GOA</option>

<option value="Patna">PATNA</option>

</select></td>

</tr>

<tr>

<td>Course</td>

<td><select name="Course">

<option value="-1" selected>select..</option>

<option value="B.Tech">B.TECH</option>

<option value="MCA">MCA</option>

<option value="MBA">MBA</option>

<option value="BCA">BCA</option>

</select></td>

</tr>

<tr>

<td>District</td>

<td><select name="District">

<option value="-1" selected>select..</option>

<option value="Nalanda">NALANDA</option>

<option value="UP">UP</option>

<option value="Goa">GOA</option>

<option value="Patna">PATNA</option>

</select></td>

</tr>

<tr>

<td>State</td>

<td><select Name="State">

<option value="-1" selected>select..</option>

<option value="New Delhi">NEW DELHI</option>

<option value="Mumbai">MUMBAI</option>

<option value="Goa">GOA</option>

<option value="Bihar">BIHAR</option>

</select></td>

</tr>

<tr>

<td>PinCode</td>

<td><input type="text" name="pincode" id="pincode" size="30"></td>

</tr>

<tr>

<td>EmailId</td>

<td><input type="text" name="emailid" id="emailid" size="30"></td>

</tr>

<tr>

<td>DOB</td>

<td><input type="text" name="dob" id="dob" size="30"></td>

</tr>

<tr>  
 <td>MobileNo</td>

<td><input type="text" name="mobileno" id="mobileno" size="30"></td>

</tr>

<tr>

<td><input type="reset"></td>

<td colspan="2"><input type="submit" value="Submit Form" /></td>

</tr>

</table>

</form>

</body>

</html>

**Form Validation**

function validate()

{

if( document.StudentRegistration.textnames.value == "" )

{

alert( "Please provide your Name!" );

document.StudentRegistration.textnames.focus() ;

return false;

}

if( document.StudentRegistration.fathername.value == "" )

{

alert( "Please provide your Father Name!" );

document.StudentRegistration.fathername.focus() ;

return false;

}

if( document.StudentRegistration.paddress.value == "" )

{

alert( "Please provide your Postal Address!" );

document.StudentRegistration.paddress.focus() ;

return false;

}

if( document.StudentRegistration.personaladdress.value == "" )

{

alert( "Please provide your Personal Address!" );

document.StudentRegistration.personaladdress.focus() ;

return false;

}

if ( ( StudentRegistration.sex[0].checked == false ) && ( StudentRegistration.sex[1].checked == false ) )

{

alert ( "Please choose your Gender: Male or Female" );

return false;

}

if( document.StudentRegistration.City.value == "-1" )

{

alert( "Please provide your City!" );

document.StudentRegistration.City.focus() ;

return false;

}

if( document.StudentRegistration.Course.value == "-1" )

{

alert( "Please provide your Course!" );

return false;

}

if( document.StudentRegistration.District.value == "-1" )

{

alert( "Please provide your Select District!" );

return false;

}

if( document.StudentRegistration.State.value == "-1" )

{

alert( "Please provide your Select State!" );

return false;

}

if( document.StudentRegistration.pincode.value == "" ||

isNaN( document.StudentRegistration.pincode.value) ||

document.StudentRegistration.pincode.value.length != 6 )

{

alert( "Please provide a pincode in the format ######." );

document.StudentRegistration.pincode.focus() ;

return false;

}

var email = document.StudentRegistration.emailid.value;

atpos = email.indexOf("@");

dotpos = email.lastIndexOf(".");

if (email == "" || atpos < 1 || ( dotpos - atpos < 2 ))

{

alert("Please enter correct email ID")

document.StudentRegistration.emailid.focus() ;

return false;

}

if( document.StudentRegistration.dob.value == "" )

{

alert( "Please provide your DOB!" );

document.StudentRegistration.dob.focus() ;

return false;

}

if( document.StudentRegistration.mobileno.value == "" ||

isNaN( document.StudentRegistration.mobileno.value) ||

document.StudentRegistration.mobileno.value.length != 10 )

{

alert( "Please provide a Mobile No in the format 123." );

document.StudentRegistration.mobileno.focus() ;

return false;

}

return( true );

}

**EXPERIMENT-7**

**A. Write a JavaScript program to test the first character of a string is uppercase or not.**

**B. Write a JavaScript code to take color from user and apply that color to Div tag.**

**7A.**

function upper\_case(str)

{

regexp = /^[A-Z]/;

if (regexp.test(str))

{

console.log("String's first character is uppercase");

}

else

{

console.log("String's first character is not uppercase");

}

}

upper\_case('Abcd');

upper\_case('abcd');

**7B.**

function changebackground(){

document.getElementById('id').style.backgroundColor = 'green' ;

}

// change background color for whole body..

function changebackground(){

document.body.style.backgroundColor = 'green';

}

**EXPERIMENT-8**

**Write JavaScript to validate the following fields of the Registration page. 1. First Name (Name should be min 4 characters and max 8 characters) 2. Password & Confirm Password (Password should not be less than 8 characters length). 3. Email id (should not contain any invalid mail) 4. Mobile Number (Phone number should be 8 digits only) 5. Last Name and Address (should not be Empty).**

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Form Validation Demo</title>

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

</head>

<body>

<div class="container">

<form id="signup" class="form">

<h1>Sign Up</h1>

<div class="form-field">

<label for="username">Username:</label>

<input type="text" name="username" id="username" autocomplete="off">

<small></small>

</div>

<div class="form-field">

<label for="email">Email:</label>

<input type="text" name="email" id="email" autocomplete="off">

<small></small>

</div>

<div class="form-field">

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

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

<small></small>

</div>

<div class="form-field">

<label for="confirm-password">Confirm Password:</label>

<input type="password" name="confirm-password" id="confirm-password" autocomplete="off">

<small></small>

</div>

<div class="form-field">

<input type="submit" value="Sign Up">

</div>

</form>

</div>

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

</body>

</html>

const usernameEl = document.querySelector('#username');

const emailEl = document.querySelector('#email');

const passwordEl = document.querySelector('#password');

const confirmPasswordEl = document.querySelector('#confirm-password');

const form = document.querySelector('#signup');

const checkUsername = () => {

let valid = false;

const min = 4,

max = 8;

const username = usernameEl.value.trim();

if (!isRequired(username)) {

showError(usernameEl, 'Username cannot be blank.');

} else if (!isBetween(username.length, min, max)) {

showError(usernameEl, `Username must be between ${min} and ${max} characters.`)

} else {

showSuccess(usernameEl);

valid = true;

}

return valid;

};

const checkEmail = () => {

let valid = false;

const email = emailEl.value.trim();

if (!isRequired(email)) {

showError(emailEl, 'Email cannot be blank.');

} else if (!isEmailValid(email)) {

showError(emailEl, 'Email is not valid.')

} else {

showSuccess(emailEl);

valid = true;

}

return valid;

};

const checkPassword = () => {

let valid = false;

const password = passwordEl.value.trim();

if (!isRequired(password)) {

showError(passwordEl, 'Password cannot be blank.');

} else if (!isPasswordSecure(password)) {

showError(passwordEl, 'Password must has at least 8 characters that include at least 1 lowercase character, 1 uppercase characters, 1 number, and 1 special character in (!@#$%^&\*)');

} else {

showSuccess(passwordEl);

valid = true;

}

return valid;

};

const checkConfirmPassword = () => {

let valid = false;

// check confirm password

const confirmPassword = confirmPasswordEl.value.trim();

const password = passwordEl.value.trim();

if (!isRequired(confirmPassword)) {

showError(confirmPasswordEl, 'Please enter the password again');

} else if (password !== confirmPassword) {

showError(confirmPasswordEl, 'The password does not match');

} else {

showSuccess(confirmPasswordEl);

valid = true;

}

return valid;

};

const isEmailValid = (email) => {

const re = /^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)\*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2,}))$/;

return re.test(email);

};

const isPasswordSecure = (password) => {

const re = new RegExp("^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[0-9])(?=.\*[!@#\$%\^&\\*])(?=.{8,})");

return re.test(password);

};

const isRequired = value => value === '' ? false : true;

const isBetween = (length, min, max) => length < min || length > max ? false : true;

const showError = (input, message) => {

// get the form-field element

const formField = input.parentElement;

// add the error class

formField.classList.remove('success');

formField.classList.add('error');

// show the error message

const error = formField.querySelector('small');

error.textContent = message;

};

const showSuccess = (input) => {

// get the form-field element

const formField = input.parentElement;

// remove the error class

formField.classList.remove('error');

formField.classList.add('success');

// hide the error message

const error = formField.querySelector('small');

error.textContent = '';

}

form.addEventListener('submit', function (e) {

// prevent the form from submitting

e.preventDefault();

// validate fields

let isUsernameValid = checkUsername(),

isEmailValid = checkEmail(),

isPasswordValid = checkPassword(),

isConfirmPasswordValid = checkConfirmPassword();

let isFormValid = isUsernameValid &&

isEmailValid &&

isPasswordValid &&

isConfirmPasswordValid;

// submit to the server if the form is valid

if (isFormValid) {

}

});

const debounce = (fn, delay = 500) => {

let timeoutId;

return (...args) => {

// cancel the previous timer

if (timeoutId) {

clearTimeout(timeoutId);

}

// setup a new timer

timeoutId = setTimeout(() => {

fn.apply(null, args)

}, delay);

};

};

form.addEventListener('input', debounce(function (e) {

switch (e.target.id) {

case 'username':

checkUsername();

break;

case 'email':

checkEmail();

break;

case 'password':

checkPassword();

break;

case 'confirm-password':

checkConfirmPassword();

break;

}

}));

**EXPERIMENT-9**

**Create a HTML form and write JavaScript to generate the invoice with one click of GENERATE INVOICE button. Take any 5 product with rate and quantity and display total for every product. Calculate Grand Total by including 18% GST.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Fabcart</title>

<style>

body{

background-color: #F6F6F6;

margin: 0;

padding: 0;

}

h1,h2,h3,h4,h5,h6{

margin: 0;

padding: 0;

}

p{

margin: 0;

padding: 0;

}

.container{

width: 80%;

margin-right: auto;

margin-left: auto;

}

.brand-section{

background-color: #0d1033;

padding: 10px 40px;

}

.logo{

width: 50%;

}

.row{

display: flex;

flex-wrap: wrap;

}

.col-6{

width: 50%;

flex: 0 0 auto;

}

.text-white{

color: #fff;

}

.company-details{

float: right;

text-align: right;

}

.body-section{

padding: 16px;

border: 1px solid gray;

}

.heading{

font-size: 20px;

margin-bottom: 08px;

}

.sub-heading{

color: #262626;

margin-bottom: 05px;

}

table{

background-color: #fff;

width: 100%;

border-collapse: collapse;

}

table thead tr{

border: 1px solid #111;

background-color: #f2f2f2;

}

table td {

vertical-align: middle !important;

text-align: center;

}

table th, table td {

padding-top: 08px;

padding-bottom: 08px;

}

.table-bordered{

box-shadow: 0px 0px 5px 0.5px gray;

}

.table-bordered td, .table-bordered th {

border: 1px solid #dee2e6;

}

.text-right{

text-align: end;

}

.w-20{

width: 20%;

}

.float-right{

float: right;

}

</style>

</head>

<body>

<div class="container">

<div class="brand-section">

<div class="row">

<div class="col-6">

<h1 class="text-white">FABCART</h1>

</div>

<div class="col-6">

<div class="company-details">

<p class="text-white">assdad asd asda asdad a sd</p>

<p class="text-white">assdad asd asd</p>

<p class="text-white">+91 888555XXXX</p>

</div>

</div>

</div>

</div>

<div class="body-section">

<div class="row">

<div class="col-6">

<h2 class="heading">Invoice No.: 001</h2>

<p class="sub-heading">Tracking No. fabcart2025 </p>

<p class="sub-heading">Order Date: 20-20-2021 </p>

<p class="sub-heading">Email Address: customer@gfmail.com </p>

</div>

<div class="col-6">

<p class="sub-heading">Full Name: </p>

<p class="sub-heading">Address: </p>

<p class="sub-heading">Phone Number: </p>

<p class="sub-heading">City,State,Pincode: </p>

</div>

</div>

</div>

<div class="body-section">

<h3 class="heading">Ordered Items</h3>

<br>

<table class="table-bordered">

<thead>

<tr>

<th>Product</th>

<th class="w-20">Price</th>

<th class="w-20">Quantity</th>

<th class="w-20">Grandtotal</th>

</tr>

</thead>

<tbody>

<tr>

<td>Product Name</td>

<td>10</td>

<td>1</td>

<td>10</td>

</tr>

<tr>

<td colspan="3" class="text-right">Sub Total</td>

<td> 10.XX</td>

</tr>

<tr>

<td colspan="3" class="text-right">Tax Total %1X</td>

<td> 2</td>

</tr>

<tr>

<td colspan="3" class="text-right">Grand Total</td>

<td> 12.XX</td>

</tr>

</tbody>

</table>

<br>

<h3 class="heading">Payment Status: Paid</h3>

<h3 class="heading">Payment Mode: Cash on Delivery</h3>

</div>

</p>

</div>

</div>

</body>

</html>

**EXPERIMENT-10**

**A. Write a JQuery code to give animation to div on click of button.**

**B. Write a JQuery code to add dynamic element on page on click of button**

| <script>  $(document).ready(function() {  $( "#runani" ).click(function() {  $( "#divanimation" ).animate({  width: "toggle",  height: "toggle"  }, {  duration: 5000,  specialEasing: {  width: "easeInOutSine",  height: "easeInOutSine",  },  complete: function() {  alert( "Animation complete!" );  }  });  });  });  </script> |
| --- |

**10B**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>jQuery Bind Click Event to Dynamically added Elements</title>

<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>

<script>

$(document).ready(function(){

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

$("ol").append("<li>list item <a href='javascript:void(0);' class='remove'>&times;</a></li>");

});

$(document).on("click", "a.remove" , function() {

$(this).parent().remove();

});

});

</script>

</head>

<body>

<button>Add new list item</button>

<p>Click the above button to dynamically add new list items. You can remove it later.</p>

<ol>

<li>list item</li>

<li>list item</li>

<li>list item</li>

</ol>

</body>

</html>

**EXPERIMENT-11**

**Write a jQuery program to demonstrate the use of mouse event, keyboard event and form event.**

**Mouse event**

<!DOCTYPE html>

<html>

<head>

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

</head>

<body bgcolor="cyan">

<p id="key">Original Text</p>

<script>

$("document").ready(function () {

$("#key").mouseenter(enter);

$("#key").mouseleave(leave);

function enter() {

$("#key").text(

"mouseenter event has occurred");

}

function leave() {

$("#key").text(

"mouseleave event has occurred");

}});

</script>

</body>

</html>

Keyboard event

<html>

<head>

<script type="text/javascript" src="jquery-1.4.2.min.js"></script>

</head>

<body>

<h1>jQuery keyup() example</h1>

<label>TextBox : </label>

<input id="textbox" type="text" size="50" />

<div>

<label>1. keyup() Message :</label> <span id="msg-keyup"></span>

</div>

<script type="text/javascript">

$('#textbox').keyup(function(event){

$('#msg-keyup').html('keyup() is triggered!, keyCode = '

+ event.keyCode + ' which = ' + event.which)

});

</script>

</body>

</html>

Form Event

<html>

<head>

<script type="text/javascript" src="jquery-1.3.2.min.js"></script>

</head>

<body>

<h1>jQuery form events - focus(), change(), blur(), select(), submit() example</h1>

<form name="testing" action="#">

<div>

TextBox : <input type="textbox" size="50"></input>

</div>

</form>

<script type="text/javascript">

$("input,select,textarea").focus(function () {

$(this).after("<span class='focus'> focus() triggered! </span>");

$("span").filter('.focus').fadeOut(4000);

});

$("form").submit(function () {

alert('Form submitted!');

});

</script>

</body>

</html>

**Experiment-12**

**Write a jQuery program to demonstrate the use of display effect, fade effect and slide effect**

<!doctype html>

<html>

<head>

<title>The jQuery Example</title>

<script src="https://www.tutorialspoint.com/jquery/jquery-3.6.0.js"></script>

<script>

$(document).ready(function() {

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

$("#box").fadeIn(1000);

});

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

$("#box").fadeOut(1000);

});

});

</script>

<style>

button{cursor:pointer;}

#box{margin-bottom:5px;padding:12px;height:100px; width:150px; background-color:#9c9cff;}

</style>

</head>

<body>

<p>Click on fadeOut and fadeIn buttons to see the result:</p>

<div id="box">This is Box</div>

<button id="hide">fadeOut Box</button>

<button id="show">fadeIn Box</button>

</body>

</html>

<!doctype html>

<html>

<head>

<title>The jQuery Example</title>

<script src="https://www.tutorialspoint.com/jquery/jquery-3.6.0.js"></script>

<script>

$(document).ready(function() {

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

$("#box").slideDown(1000);

});

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

$("#box").slideUp(1000);

});

});

</script>

<style>

button{cursor:pointer;}

#box{margin-bottom:5px;padding:12px;height:100px; width:120px; background-color:#9c9cff;}

</style>

</head>

<body>

<p>Click on slideUp and slideDown buttons to see the result:</p>

<div id="box">This is Box</div>

<button id="hide">slideUp </button>

<button id="show">slideDown </button>

</body>

</html>

**EXPERIMENT-13**

**A simple calculator web application that takes two numbers and an operator (+, ,/,\*and %) from an HTML page and returns the result page with the operation performed on the operands.**

<html>

<head>

<title>Simple Calculator</title>

</head>

<body>

<h2 align="center">Simple Calculator</h2>

<form method="post" action="Simplecalc.php">

<table align="center">

<tr>

<td>Enter First Number : </td>

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

</tr>

<tr>

<td>Enter Second Number : </td>

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

</tr>

<tr> <td> <br/> </td> </tr>

<tr>

<td colspan=2>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="submit" name="op" value="+"></input> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="submit" name="op" value="-"></input> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="submit" name="op" value="\*"></input> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="submit" name="op" value="/"></input> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="submit" name="op" value="%"></input> </td>

</tr>

</table>

</form>

</body>

</html>

Simplecalc.php

<?php

$num1=$\_POST["fnum"];

$num2=$\_POST["snum"];

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

if($num1=="" or $num2=="")

{

echo "Please enter two numbers...";

}

else

{

echo "First Number is : ".$num1."<br/>";

echo "Second Number is : ".$num2."<br/>";

echo "Operator is : ".$op."<br/>";

if($op=="+")

{

$res=$num1+$num2;

echo "Additon is : ".$res;

}

if($op=="-")

{

$res=$num1-$num2;

echo "Subtraction is : ".$res;

}

if($op=="\*")

{

$res=$num1\*$num2;

echo "Multiplication is : ".$res;

}

if($op=="/")

{

$res=$num1/$num2;

echo "Division is : ".$res;

}

if($op=="%")

{

$res=$num1%$num2;

echo "Modulus is : ".$res;

}

}?>

**EXPERIMENT-14**

**Write PHP program for student registration. Perform insert, display, update and delete operations from database. (use any database)**

**Step 1 – Create a Database Connection File**

In this step, you will create a file name db.php and update the below code into your file.

<?php

$servername='localhost';

$username='root';

$password='';

$dbname = "my\_db";

$conn=mysqli\_connect($servername,$username,$password,"$dbname");

if(!$conn){

die('Could not Connect MySql Server:' .mysql\_error());

}

?>

**Step 2 – Create a registration form and save data into MySQL database**

In this step, you need to create an form and update the below code into your registration form.

<?php

require\_once "db.php";

if (isset($\_POST['signup'])) {

$name = mysqli\_real\_escape\_string($conn, $\_POST['name']);

$email = mysqli\_real\_escape\_string($conn, $\_POST['email']);

$mobile = mysqli\_real\_escape\_string($conn, $\_POST['mobile']);

$password = mysqli\_real\_escape\_string($conn, $\_POST['password']);

$cpassword = mysqli\_real\_escape\_string($conn, $\_POST['cpassword']);

if (!preg\_match("/^[a-zA-Z ]+$/",$name)) {

$name\_error = "Name must contain only alphabets and space";

}

if(!filter\_var($email,FILTER\_VALIDATE\_EMAIL)) {

$email\_error = "Please Enter Valid Email ID";

}

if(strlen($password) < 6) {

$password\_error = "Password must be minimum of 6 characters";

}

if(strlen($mobile) < 10) {

$mobile\_error = "Mobile number must be minimum of 10 characters";

}

if($password != $cpassword) {

$cpassword\_error = "Password and Confirm Password doesn't match";

}

if (!$error) {

if(mysqli\_query($conn, "INSERT INTO users(name, email, mobile ,password) VALUES('" . $name . "', '" . $email . "', '" . $mobile . "', '" . md5($password) . "')")) {

header("location: registration.php");

exit();

} else {

echo "Error: " . $sql . "" . mysqli\_error($conn);

}

}

mysqli\_close($conn);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Simple Registration Form in PHP with Validation | Tutsmake.com</title>

<link href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" rel="stylesheet">

</head>

<body>

<div class="container">

<div class="row">

<div class="col-lg-8 col-offset-2">

<div class="page-header">

<h2>Registration Form in PHP with Validation</h2>

</div>

<p>Please fill all fields in the form</p>

<form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

<div class="form-group">

<label>Name</label>

<input type="text" name="name" class="form-control" value="" maxlength="50" required="">

<span class="text-danger"><?php if (isset($name\_error)) echo $name\_error; ?></span>

</div>

<div class="form-group ">

<label>Email</label>

<input type="email" name="email" class="form-control" value="" maxlength="30" required="">

<span class="text-danger"><?php if (isset($email\_error)) echo $email\_error; ?></span>

</div>

<div class="form-group">

<label>Mobile</label>

<input type="text" name="mobile" class="form-control" value="" maxlength="12" required="">

<span class="text-danger"><?php if (isset($mobile\_error)) echo $mobile\_error; ?></span>

</div>

<div class="form-group">

<label>Password</label>

<input type="password" name="password" class="form-control" value="" maxlength="8" required="">

<span class="text-danger"><?php if (isset($password\_error)) echo $password\_error; ?></span>

</div>

<div class="form-group">

<label>Confirm Password</label>

<input type="password" name="cpassword" class="form-control" value="" maxlength="8" required="">

<span class="text-danger"><?php if (isset($cpassword\_error)) echo $cpassword\_error; ?></span>

</div>

<input type="submit" class="btn btn-primary" name="signup" value="submit">

Already have a account?<a href="login.php" class="btn btn-default">Login</a>

</form>

</div>

</div>

</div>

</body>

</html>

**EXPERIMENT-15**

**Write a PHP program to store current date-time in a COOKIE and display the ‘Last visited on’ date-time on the web page upon reopening of the same page**

<?php

#calculate 60 days in the future: seconds \* minutes \* hours \* days + current time

$itm=60\*60\*24\*60+time();

#create cookie

setcookie('last\_visit',date("G:i -m/d/y"),$itm);

#check if cookie exists

if(isset($\_COOKIE['last\_visit'])) {

$visit=$\_COOKIE['last\_visit'];

echo "Your last visit was- " .$visit;

}

else {

#no cookies

echo "You have some stale cookies!" ;

}

?>