

SCHOOL OF ENGINEERING & TECHNOLOGY

BACHELOR OF TECHNOLOGY

WEB TECHNOLOGY

2ND SEMESTER

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Laboratory Manual

NAME: Sahil Pandya

ROLL NO.: 21124097

BATCH: B2

Practical: 1

Aim: WAP to create ordered, unordered and nested list in HTML.

Program Code:

```
<!DOCTYPE html>
<html>
<body>
<h2>Unordered HTML list</h2>
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
<h2>Ordered HTML list</h2>
<ol>
  <li>Vanilla</li>
  <li>Chocolate</li>
  <li>Strawberry</li>
</ol>
<h2>Nested List</h2>
<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>
</body>
</html>
```

Output:

Unordered HTML list

- Coffee
- Tea
- Milk

Ordered HTML list

1. Vanilla
2. Chocolate
3. Strawberry

Nested List

- Coffee
 - black hot drink
- Milk
 - white cold drink

Practical: 2

Aim: WAP to create a table with borders.

Program Code:

```
<!DOCTYPE html>

<html>

<head>

<style>

table, th, td {

    border: 1px solid black;

}

</style>

</head>

<body>

<h2>Table With Border</h2>

<table style="width:50%">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Age</th>

</tr>

<tr>

<td>Rohan</td>

<td>Sharma</td>

<td>50</td>
```

```

</tr>

<tr>

  <td>Aaryan</td>

  <td>Patel</td>

  <td>94</td>

</tr>

<tr>

  <td>John</td>

  <td>Doe</td>

  <td>80</td>

</tr>

</table>

</body>

</html>

```

Output:

Table With Border

Firstname	Lastname	Age
Rohan	Sharma	50
Aaryan	Patel	94
John	Doe	80

Practical : 3

Aim: WAP to create a registration form.

Program Code:

```

<Html>

<head>

  <h2><u>Registration Form</u></h2>

</head>

<br>

<br>

<form>

<label> Firstname </label>

<input type="text" name="firstname" size="15"/> <br> <br>

<label> Middlename: </label>

```

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

<label> Lastname: </label>

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

<label>

Course :

</label>

<select>

<option value="Course">Course</option>

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

<option value="BBA">BBA</option>

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

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

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

<option value="M.Tech">M.Tech</option>

</select>

<label>

Gender :

</label>

<input type="radio" name="male"/> Male

<input type="radio" name="female"/> Female

<input type="radio" name="other"/> Other

<label>

Phone :

</label>

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

<input type="text" name="phone" size="10"/>

Address


```

<textarea cols="15" rows="5" value="address">
</textarea>
<br> <br>
Email:
<input type="email" id="email" name="email"/> <br>
<br> <br>
Password:
<input type="Password" id="pass" name="pass"> <br>
<br> <br>
<input type="submit" name="submit" value="Submit"/>
</form>
</body>
</html>

```

Output:

Firstname

Middlename:

Lastname:

Course :

Gender :

☐ Male

☐ Female

☐ Other

Phone :

Address

Email:

Password:

Practical:4

Aim: WAP to provide styles in HTML.

Program Code:

```
<html>
<style>
body{
background-color:yellow;
}
h1{
text-align:center;
text-decoration:underline;
}
p{
text-align:center;
font-size:20px;
border: 3px solid black;
}
h4{
text-align:center;
font-size:20px;
padding:20px;
}
</style>
<body>
<h1>WELCOME </h1>
<p>Let us learn programming languages</p>
<h4>Get ready for the fun!!</h4>
</body>
</html>
```

Output:



Practical:5

Aim: WAP to perform transition and animation in HTML.

Program Code:

```
<html>
<style>
h1{
text-align:center;
}
div {
width:200px;
height:100px;
background:brown;
transition-property:height;
transition-duration: 2s;
transition-timing-function: linear;
transition-delay: 1s;
}
div:hover {
height: 200px;
}
@keyframes example {
0% {background-color: red;}
25% {background-color: yellow;}
50% {background-color: blue;}
100% {background-color: green;}
}
div {
width:200px;
height: 100px;
background-color: brown;
animation-name: example;
animation-duration: 4s;
```



```
    animation-delay:1s;
}
</style>
<body>
<h1>The transition Properties.</h1>
<div></div>
</body>
</html>
```

Output:

The transition Properties.



Practical:6

Aim: WAP to develop a webpage of your personal resume (Curriculum vitae). Use image map, picture element, favicon, CSS Linear Gradients, and CSS grid layout.

Program Code:

```
<html>
<head>
<title>Resume</title>
<style>
.grid-container {
display: grid;
grid-template-columns: auto ;
gap: 10px;
background-color: #b4e782;
padding: 10px;
}
.grid-container >
div {
background-color: rgba(200, 159, 159, 0.8);
```

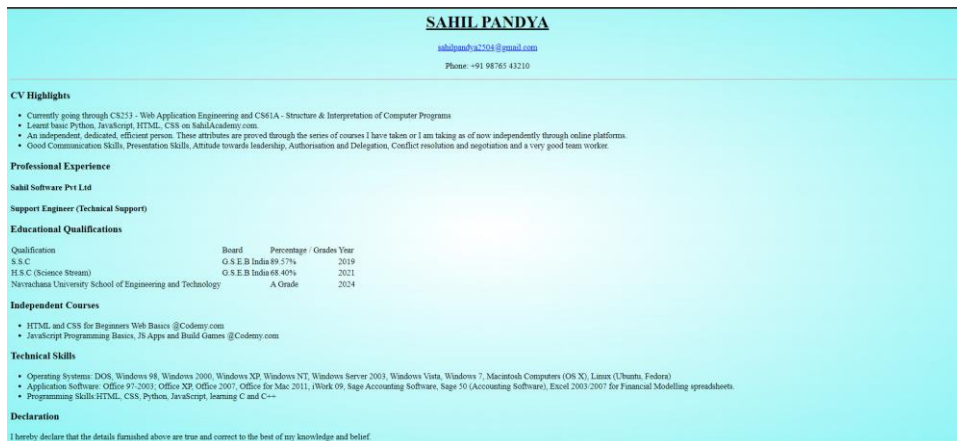
```

text-align: center;
padding: 20px 0;
font-size: 30px;
}
</style>
</head>
<body style="background:radial-gradient(white,rgb(139, 244, 244))" >
<p style="font-size:50px">
<div id="header">
<center>
<p id="name"><h1 style="background:linear- gradient(red,grey,white)"><b><u>SAHIL
PANDYA</u></b></h1></p>
<a href="mailto:sahilpandya2504@gmail.com" target="_blank"><p
id="email">sahilpandya2504@gmail.com</p></a>
<p>Phone: +91 98765 43210<br></p>
</div>
<div class="left">
</div>
<div class="right">
</center>
<hr>
<h3>CV Highlights</h3>
<p>
<ul>
<li>Currently going through CS253 - Web Application Engineering and CS61A - Structure &
Interpretation of Computer Programs</li>
<li>Learnt basic Python, JavaScript, HTML, CSS on SahilAcademy.com.</li>
<li>An independent, dedicated, efficient person. These attributes are proved through the
series of courses I have taken or I am taking as of now independently through online
platforms.</li>
<li>Good Communication Skills, Presentation Skills, Attitude towards leadership,
Authorisation and Delegation, Conflict resolution and negotiation and a very good team
worker.</li></ul>
</p>
<h3>Professional Experience</h3>

```

```
<h4 id="company-name">Sahil Software Pvt Ltd</h4>
<p id="job-title"><strong>Support Engineer (Technical Support)</strong></p>
</p>
<h3>Educational Qualifications</h3>
<table>
<tr id="heading">
<td>Qualification</td>
<td>Board</td>
<td>Percentage / Grades</td>
<td>Year</td>
</tr>
<tr>
<td>S.S.C</td>
<td>G.S.E.B India</td>
<td>89.57%</td>
<td>2019</td>
</tr>
<tr>
<td>H.S.C (Science Stream)</td>
<td>G.S.E.B India</td>
<td>68.40%</td>
<td>2021</td>
</tr>
<tr>
<td>Navrachana University School of Engineering and Technology</td>
<td></td>
<td>A Grade</td>
<td>2024</td>
</tr>
</table>
<div>
<h3>Independent Courses</h3>
```

```
<p>
<ul>
<li>
<span id="course-name">HTML and CSS for Beginners Web Basics</span>
@Codemy.com</li>
<li>
<span id="course-name">JavaScript Programming Basics, JS Apps and Build Games
</span> @Codemy.com</li>
</li>
</ul>
</div>
<div>
<h3>Technical Skills</h3>
<p>
<ul>
<li>
<span id="course-name">Operating Systems:</span> DOS, Windows 98, Windows 2000,
Windows XP, Windows NT, Windows Server 2003, Windows Vista, Windows 7, Macintosh
Computers (OS X), Linux (Ubuntu, Fedora)</li>
<li>
<span id="course-name">Application Software:</span> Office 97-2003; Office XP, Office
2007, Office for Mac 2011, iWork 09, Sage Accounting Software, Sage 50 (Accounting
Software), Excel 2003/2007 for Financial Modelling spreadsheets.</li>
<li>
<span id="course-name">Programming Skills:</span>HTML, CSS, Python, JavaScript,
learning C and C++</li></ul>
</p>
</div>
<h3>Declaration</h3>
<p>
I hereby declare that the details furnished above are true and correct to the best of my
knowledge and belief.</p>
</div>
</body>
</html>
```



Practical:7

Aim: To create a simple XML document to display the book information. Demonstrate the use of XSLT with XML.

Program Code:

.HTML file:

```
<?xml version="1.0" encoding="UTF-8"?>

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">

<html>

<head>

<title>XML-14K15A0501</title>

</head>

<body>

<table border="2">

<tr>

<th align="center">Bookname</th>

<th align="center">Author</th>

<th align="center">Publisher</th>

<th align="center">Edition</th>

<th align="center">Price</th>
```

</tr>

<tr>

<td align="center">Web Technology</td>

<td align="center">Robert Roy</td>

<td align="center">Technical</td>

<td align="center">7th</td>

<td align="center">650</td>

</tr>

<tr>

<td align="center">Software Engineering</td>

<td align="center">Ugasen Suman</td>

<td align="center">Technical</td>

<td align="center">8th</td>

<td align="center">450</td>

</tr>

<tr>

<td align="center">DWDM</td>

<td align="center">Vipin Kumar</td>

<td align="center">Technical</td>

<td align="center">5th</td>

<td align="center">399</td>

</tr>

<tr>

<td align="center">Computer Networks</td>

<td align="center">Focouras</td>

<td align="center">Technical</td>

```

<td align="center">7th</td>

<td align="center">500</td>

</tr>

<tr>

<td align="center">DAA</td>

<td align="center">TH Comsen</td>

<td align="center">Technical</td>

<td align="center">7th</td>

<td align="center">600</td>

</tr>

<xsl:for-each select="library_details/library">

<tr>

<td><xsl:value-of select="Bookname"/></td>

<td><xsl:value-of select="Author"/></td>

<td><xsl:value-of select="Publisher"/></td>

<td><xsl:value-of select="Edition"/></td>

<td><xsl:value-of select="Price"/></td></tr>

</xsl:for-each>

</table>

</body>

</html>

</xsl:template>

</xsl:stylesheet>

```

.XML file:

```

<?xml version="1.0" encoding="UTF-8"?> <?xmlstylesheet type="text/xsl"
href="example.xsl"?>

<library_details>

```

<library>

<Bookname>Web Technology</Bookname>

<Author>Robet Roy</Author>

<Publisher>Technical</Publisher>

<Edition>7th</Edition>

<Price>650</Price>

</library>

<library>

<Bookname>Software Engineering</Bookname>

<Author>Ugrasen Suman</Author>

<Publisher>Technical</Publisher>

<Edition>8th</Edition>

<Price>450</Price>

</library>

<library>

<Bookname>DWDM</Bookname>

<Author>Vipin Kumar</Author>

<Publisher>Technical</Publisher>

<Edition>5th</Edition>

<Price>399</Price>

</library>

<library>

<Bookname>Computer Networks</Bookname>

<Author>Forouzan</Author>

<Publisher>Technical</Publisher>

<Edition>7th</Edition>


```

<Price>500</Price>

</library>

<library>

<Bookname>D.A.A</Bookname>

<Author>T.H Cormen</Author>

<Publisher>Technical</Publisher>

<Edition>7th</Edition>

<Price>600</Price>

</library>

</library_details>

```

Output:

Bookname	Author	Publisher	Edition	Price
Web Technology	Robert Roy	Technical	7th	650
Software Engineering	Ugasen Suman	Technical	8th	450
DWDM	Vipin Kumar	Technical	5th	399
Computer Networks	Focouras	Technical	7th	500
DAA	TH Comsen	Technical	7th	600

Practical:8

Aim: WAP to collect the number using pop up box and check that number is even or odd, show message to user using alert box in JavaScript.

Program Code:

```

<html>

<body>

<style>

#oe{

```

```
font-size:25px;

}

</style>

<b>ENTER A NUMBER:<input type="text" id="t" name="n"></b><br><br>

<button onclick="oddeven()">submit</button>

<p id="oe"></p>

<script>

var num;

function oddeven(){

num = parseInt(document.getElementById("t").value);

if (num%2==0)

    document.getElementById("oe").innerHTML="It is an Even number.";

else

    document.getElementById("oe").innerHTML = "It is an Odd number.";

}

</script>

</body>

</html>
```

Output:

ENTER A NUMBER:

It is an Even number.

Practical:9

Aim: WAP to collect operator and operands using pop up box and perform the operation according to operator entered by the user. Write the answer on document using JavaScript.

Program Code:

```
<html>

<body>

<form>

<button type="button" onClick="add()">ADDITION</button><br><br>

<button type="button" onClick="sub()">SUBTRACTION</button><br><br>

<button type="button" onClick="mul()">MULTIPLICATION</button><br><br>

<button type="button" onClick="div()">DIVISION</button><br><br>

</form>

<h3>The result is:</h3>

<p id="demo"></p>

</body>

<script>

var x=prompt("Enter the operator:");

var y=prompt("Enter first operand:");

var z=prompt("Enter second operand:");

function add(){

    document.getElementById("demo").innerHTML=y+z;

}

function sub(){

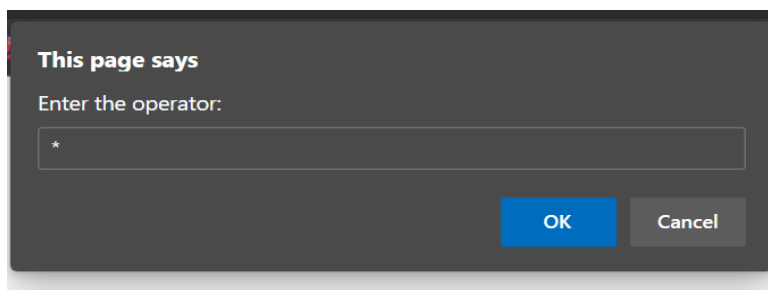
    document.getElementById("demo").innerHTML=y-z;

}

function mul(){
```

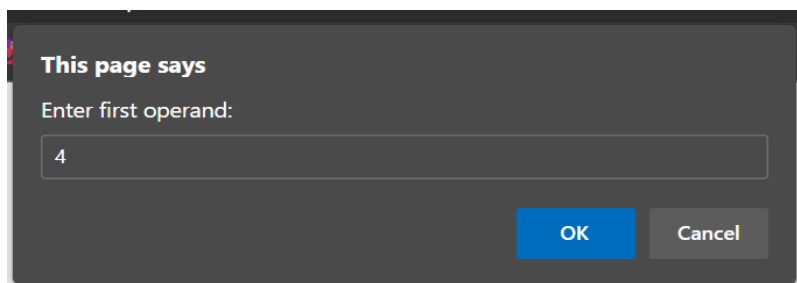
```
        document.getElementById("demo").innerHTML=y*z;
    }
    function div(){
        document.getElementById("demo").innerHTML=y/z;
    }
</script>
</html>
```

Output:



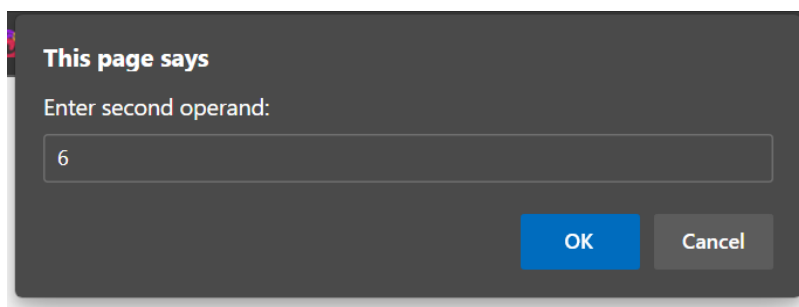
This page says
Enter the operator:

OK Cancel



This page says
Enter first operand:

OK Cancel



This page says
Enter second operand:

OK Cancel

The result is:

24

Practical:10

Aim: WAP to change the background color according to user clicks on different button.

Program Code:

```
<html>

<body>

<h1>Change background color to:</h1>

<form>

<input type="radio" name="colors" onclick="document.bgColor='orange'">Orange<br><br>

<input type="radio" name="colors" onclick="document.bgColor='yellow'">Yellow<br><br>

<input type="radio" name="colors" onclick="document.bgColor='red'">Red<br><br>

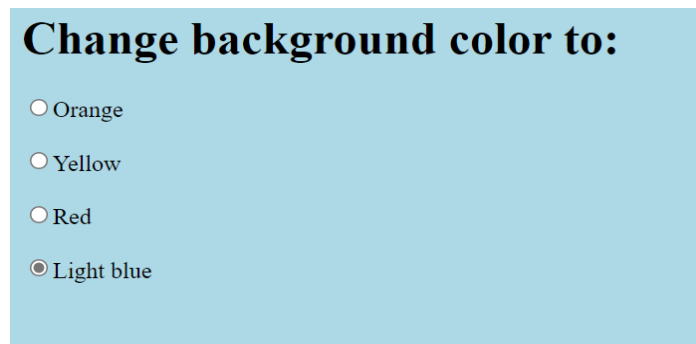
<input type="radio" name="colors" onclick="document.bgColor='lightblue'">Light
blue<br><br>

</form>

</body>

</html>
```

Output:



Change background color to:

☐ Orange

☐ Yellow

☐ Red

☒ Light blue

Practical:11

Aim: Write a JavaScript which shows date and time in alert box when user clicks on the button.

Program Code:

```
<html>

<head>

<script>

function show(){

var time=new Date()

document.getElementById('display').innerHTML=time;

}

</script>

</head>

<body>

<h3>SHOWS DATE AND TIME WHEN USER CLICKS ON BUTTON</h3>

<button type="button" onClick="show()">CLICK HERE!!</button>

<p id="display"></p>

</body>

</html>
```

Output:

SHOWS DATE AND TIME WHEN USER CLICKS ON BUTTON

CLICK HERE!!

Sat May 28 2022 16:35:48 GMT+0530 (India Standard Time)

Practical:12

Aim: WAP to change the content of an HTML element using JavaScript.

Program Code:

```
<html>

<body>

<h2><u>CHANGING CONTENTS OF HTML</u></h2>

<h4>To change text!!</h4>

<p id="t">Hello user!!</p>

<button type="button" onClick='document.getElementById("t").innerHTML="Welcome
user!!">Click here!</button>

<h4>To change font size!!</h4>

<p id="f">Welcome to javascript.</p>

<button type="button" onClick='document.getElementById("f").style.fontSize="25px">Click
here!</button>

<h4>To hide element!!</h4>

<p id="h">Enjoy your work.</p>

<button type="button" onClick='document.getElementById("h").style.display="none">Click
here!</button>

<h4>To display date and time....</h4>

<p id="d"></p>

<button type="button" onClick='document.getElementById("d").innerHTML="Date:
"+Date()'>Click here!</button>

</body>

</html>
```

CHANGING CONTENTS OF HTML

To change text!!

Hello user!!

[Click here!](#)

To change font size!!

Welcome to javascript.

[Click here!](#)

To hide element!!

Enjoy your work.

[Click here!](#)

To display date and time....

[Click here!](#)

CHANGING CONTENTS OF HTML

To change text!!

Welcome user!!

[Click here!](#)

To change font size!!

Welcome to javascript.

[Click here!](#)

To hide element!!

[Click here!](#)

To display date and time....

Date: Sat May 28 2022 18:20:10 GMT+0530 (India Standard Time)

[Click here!](#)

Output:

Practical:13

Aim: WAP to show the first name and last name value which user has entered in the text box using alert box using JavaScript

Program Code:


```
<html>

<head>

<script>

function fl(){

var first,last;

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

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

alert("Welcome!! " +first+ " "+last);

}

</script>

</head>

<body>

<form>

<big>First name:<input type="text" id="first"></big><br><br>

<big>Last name:<input type="text" id="last"></big><br><br>

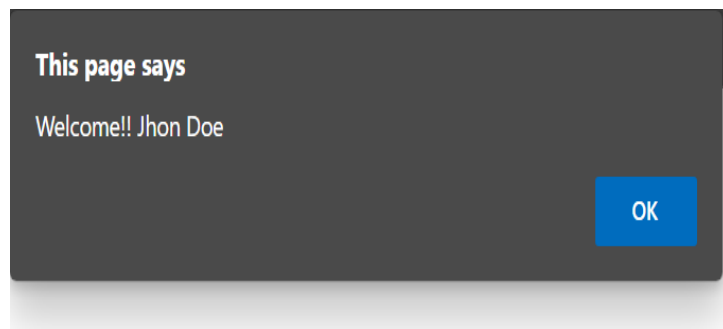
<button type="button" onClick="fl()">Submit</button>

</form>

</body>

</html>
```

Output:



First name:

Last name:

Practical:14

Aim: WAP which gives an alert if the user has not entered the same password in two input box and don't allow to submit the form using JavaScript.

Program Code:

```
<html>

<head>

<script>

function passw(){

var password=document.getElementById("pass").value;

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

if (password!=confirm){

alert("Sorry!!Password doesn't match...Try again.");

return false;

}

else{

alert("Login successful");
```

```
return true;

}

}

</script>

</head>

<body>

<form>

<big>Password:<input type="password" id="pass"></big><br><br>

<big>Confirm Password:<input type="password" id="confirm"></big><br><br>

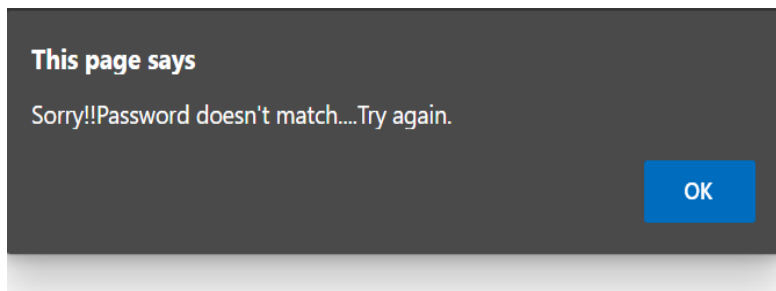
<button type="button" onClick="passw()">Submit</button>

</form>

</body>

</html>
```

Output:



Password:

Confirm Password:

Aim: WAP which change the image source using JavaScript and use onclick, ondblclick, onmouseover, and onmouseout events.

Program 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>
</head>
<body>
    <button
onclick="document.getElementById('myImage1').src='emo1.jpg'">Smile</button
>
    
    <button
onclick="document.getElementById('myImage1').src='emo2.jpg'">Smirk</button
>
    <button
ondblclick="document.getElementById('myImage2').src='emo1.jpg'">Smile</but
ton>
    
    <button
ondblclick="document.getElementById('myImage2').src='emo2.jpg'">Smirk</but
ton>
    <button
onmouseover="document.getElementById('myImage3').src='emo1.jpg'">Smile</bu
tton>
    
    <button
onmouseover="document.getElementById('myImage3').src='emo2.jpg'">Smirk</bu
tton>
```

```

        <button
onmouseout="document.getElementById('myImage4').src='emo1.jpg'">Smile</but
ton>

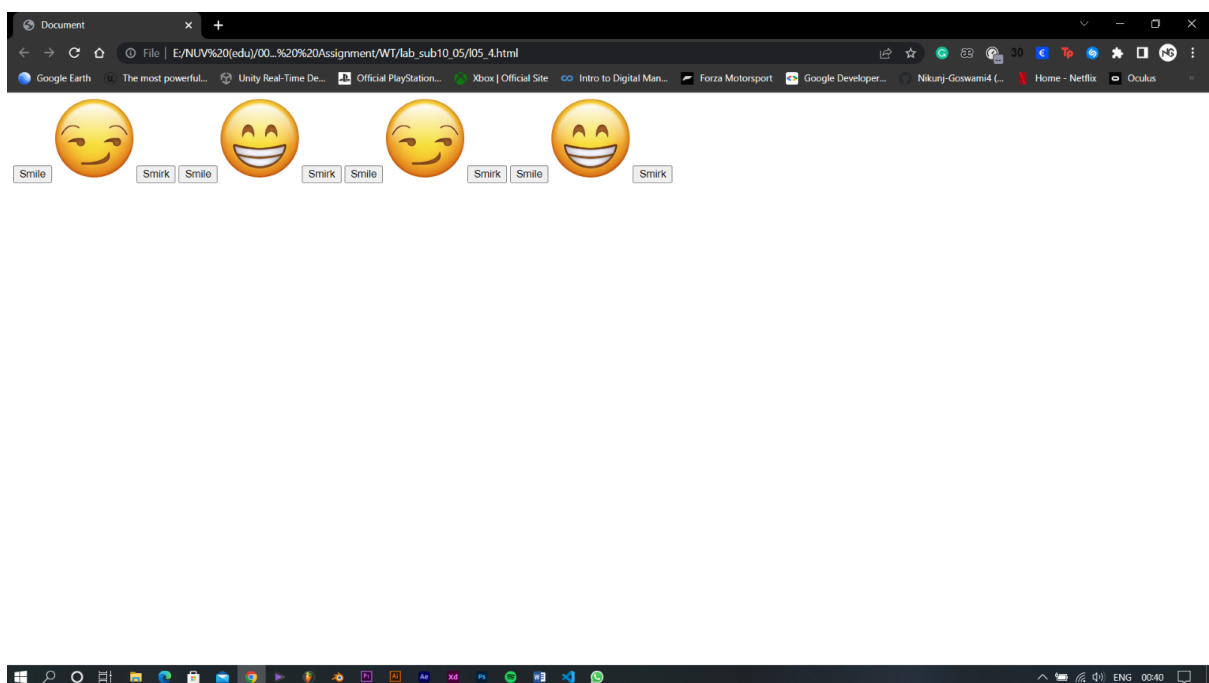
        <button
onmouseout="document.getElementById('myImage4').src='emo2.jpg'">Smirk</but
ton>

</body>

</html>

```

Output:



Practical:16

Aim: WAP to perform form validation (contact number) using javascript if a valid number is entered then redirect the page to the welcome.html page else restrict it from being submitted and give the proper alert message.

Program Code:

form.html file:

```

<html>

<link rel='stylesheet' href='js-form-validation.css' type='text/css' />

```

```
<script src="sample-registration-form-validation.js"></script>
<body onload="document.registration.userid.focus();">
<h1><u>REGISTRATION FORM</u></h1>
<form name='registration' onSubmit="return formValidation();">
<big class="u">USER ID:<input type="text" name="userid" size="12"/></big><br><br>
<big class="u">PASSWORD:<input type="password" name="passid" size="12"/></big><br><br>
<big class="u">NAME:<input type="text" name="username" size="50"/></big><br><br>
<big class="u">ADDRESS:<input type="text" name="address" size="50"/></big>
<p class="u">PHONE NO.:<input type="number" name="phone" size="10"/></p>
<big class="u">COUNTRY:<select name="country"></big>
<option selected="" value="Default">(Please select a country)</option>
<option value="France">France</option>
<option value="Canada">Canada</option>
<option value="India">India</option>
<option value="China">China</option>
<option value="USA">USA</option>
</select>
<p class="u">EMAIL:<input type="text" name="email" size="50"/></p>
<p class="u">GENDER:<input type="radio" name="m" value="Male"/>Male
<input type="radio" name="m" value="Female"/>Female
<p class="u">LANGUAGE:<select name="language">
<option selected="" value="Default">(Please select a language)</option>
<option value="English">English</option>
<option value="French">French</option>
<option value="Chinese">Chinese</option>
</select>
<p class="u">HOBBIES:<input type="checkbox" name="m">Dancing
<input type="checkbox" name="n">Drawing
<input type="checkbox" name="o">Reading
<p class="u">MESSAGE:<textarea name="desc" id="desc"></textarea><br><br>
<input type="submit" name="submit" value="Submit"/>
</form>
```

```
</body>
```

```
</html>
```

js-form-validation.css file:

```
body{  
background-color: pink;  
}  
h1 {  
text-align: center;  
}  
form textarea {  
width: 180px;  
height: 80px;  
}  
form{  
text-align: center;  
}  
[type="submit"] {  
clear: center;  
font-size: 18px  
}  
.u{  
font-size: 25px  
}
```

sample-registration-form-validation.js file:

```
function formValidation(){  
var uid = document.registration.userid;  
var passid = document.registration.passid;  
var uname = document.registration.username;  
var uadd = document.registration.address;  
var uphone=document.registration.phone;  
var ucountry = document.registration.country;
```

```

var uemail = document.registration.email;
var umgender = document.registration.mg;
var ufgender = document.registration.fg;
if(userid_validation(uid,5,12)){
if(passid_validation(passid,7,12)){
if(allLetter(uname)){
if(alphanumeric(uadd)){
if(allnumeric(uphone))
{
if(countryselect(ucountry))
{
if(ValidateEmail(uemail))
{
if(validgender(umgender,ufgender))
{
}
}
}
}
}
}
}
}
}
return false;
}
function userid_validation(uid,mx,my){
var uid_len = uid.value.length;
if (uid_len == 0 || uid_len >= my || uid_len < mx)
{
alert("User Id should not be empty / length be between "+mx+" to "+my);
uid.focus();
return false;
}
}

```



```

}
return true;
}
function passid_validation(passid,mx,my){
var passid_len = passid.value.length;
if (passid_len == 0 ||passid_len >= my || passid_len < mx)
{
alert("Password should not be empty / length be between "+mx+" to "+my);
passid.focus();
return false;
}
return true;
}
function allLetter(uname){
var letters = /[A-Za-z]+$/;
if(uname.value.match(letters))
{
return true;
}
else
{
alert("Username should not be empty/Username must have alphabet characters only");
uname.focus();
return false;
}
}
function alphanumeric(uadd){
var letters = /[0-9a-zA-Z]+$/;
if(uadd.value.match(letters))
{
return true;
}
}

```

```
else
{
alert('User address must have alphanumeric characters only');
uadd.focus();
return false;
}
}
function allnumeric(uphone){
var numbers = /^[0-9]+$/;
if(uphone.value.match(numbers))
{
return true;
}
else
{
alert('Phone number must have numeric characters only');
uphone.focus();
return false;
}
}
function countryselect(ucountry){
if(ucountry.value == "Default")
{
alert('Select your country from the list');
ucountry.focus();
return false;
}
else
{
return true;
}
}
```

```
function ValidateEmail(uemail){
var mailformat = /^w+([\\.-]?w+)*@w+([\\.-]?w+)*\\.w{2,3}+$/;
if(uemail.value.match(mailformat))
{
return true;
}
else
{
alert("You have entered an invalid email address!");
uemail.focus();
return false;
}
}

function validgender(umgender,ufgender){
x=0;
if(umgender.checked)
{
x++;
}
if(ufgender.checked)
{
x++;
}
if(x==0)
{
alert('Select Male/Female');
umgender.focus();
return false;
}
else
{
alert('Form Succesfully Submitted');
```

```

window.location.reload()

return true;

}

}

```

Output:

REGISTRATION FORM

USER ID:

PASSWORD:

NAME:

ADDRESS:

PHONE NO.:

COUNTRY:

EMAIL:

GENDER: ☐ Male ☐ Female

LANGUAGE:

HOBBIES: ☐ Dancing ☐ Drawing ☐ Reading

MESSAGE:

Practical:17

Aim: Write a JavaScript code that displays text “TEXT-GROWING” with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50pt it displays “TEXT-SHRINKING” in BLUE color. Then the font size decreases to 5pt.

Program Code:

```

<html>

<head>

</head>

```

```
<body>
<center><br><br><br><br>
<p id="demo"></p>
</center>
<script>
var var1=setInterval(inTimer,1000);
var size=5;
var tgs=document.getElementById("demo");
function inTimer(){
size+=5;
tgs.innerHTML="TEXT GROWING";
tgs.setAttribute("style","font-size:"+size+"px; color:red");
if(size>=50)
{
clearInterval(var1);
var var2=setInterval(deTimer,1000);
}
}
function deTimer(){
size-=5;
tgs.innerHTML="TEXT SHRINKING";
tgs.setAttribute("style","font-size:"+size+"px; color:blue");
if(size<=5)
{
clearInterval(var1);
}
}
</script>
</body>
</html>
```

TEXT GROWING

Output:

TEXT SHRINKING

Practical:18

Aim: Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and division.

Program Code:

```
<html>
<style>
body{
background:linear-gradient(to right,light blue);
}
h1 {
text-align: center;
color:black;
}
#clear{
width:225px;
border:3px solid black;
background-color:red;
}
.formstyle
{
width:240px;
height:500px;
margin:auto;
border:3px solid blue;
```

```

padding:20px;
}
input
{
width:20px;
background-color:yellow;
color:black;
border:3px solid black;
padding:20px;
margin:5px;
font-size:16px;
}
#calc{
width:250px;
border:4px solid black;
background-color:lightblue;
}
</style>
<body>
<h1><u>CALCULATOR</u></h1>
<div class= "formstyle">
<form name = "f1">
<input id = "calc" type ="text" name = "answer"><br><br>
<input type = "button" value = "1" onclick = "f1.answer.value += '1' ">
<input type = "button" value = "2" onclick = "f1.answer.value += '2' ">
<input type = "button" value = "3" onclick = "f1.answer.value += '3' ">
<input type = "button" value = "+" onclick = "f1.answer.value += '+' "><br><br>
<input type = "button" value = "4" onclick = "f1.answer.value += '4' ">
<input type = "button" value = "5" onclick = "f1.answer.value += '5' ">
<input type = "button" value = "6" onclick = "f1.answer.value += '6' ">
<input type = "button" value = "-" onclick = "f1.answer.value += '-' "><br><br>
<input type = "button" value = "7" onclick = "f1.answer.value += '7' ">

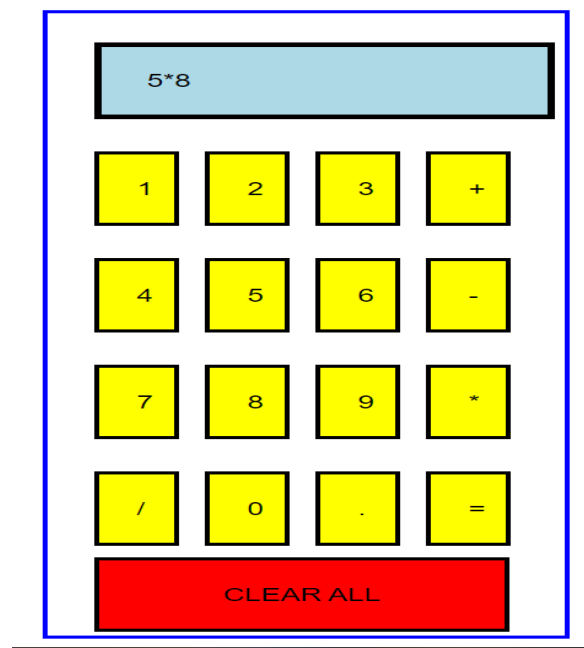
```

```

<input type = "button" value = "8" onclick = "f1.answer.value += '8' ">
<input type = "button" value = "9" onclick = "f1.answer.value += '9' ">
<input type = "button" value = "*" onclick = "f1.answer.value += '*' "><br><br>
<input type = "button" value = "/" onclick = "f1.answer.value += '/' ">
<input type = "button" value = "0" onclick = "f1.answer.value += '0' ">
<input type = "button" value = "." onclick = "f1.answer.value += '.' ">
<input type = "button" value = "=" onclick = "f1.answer.value = eval(f1.answer.value) "><br>
<input type = "button" value = "CLEAR ALL" onclick = "f1.answer.value = ' ' " id= "clear"
><br>
</form>
</div>
</body>
</html>

```

Output:



Practical:19

Aim: WAP to extract information from Jason and displaying it in the html table.

Program Code:

```

<!DOCTYPE HTML>
<html>
<head>

```



```

<title>
How to convert JSON data to a
html table using JavaScript ?
</title>
<script src=
"https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js">
</script>
</head>
<body style = "text-align:center;" id = "body">
<p id = "GFG_UP" style =
"font-size: 15px; font-weight: bold;">
</p>
<button onclick = "constructTable('#table')">
click here
</button>
<br><br>
<table align = "center"
id="table" border="1">
</table>
<script>
var el_up = document.getElementById("GFG_UP");
var list = [
{ "col_1": "val_11", "col_3": "val_13" },
{ "col_2": "val_22", "col_3": "val_23" },
{ "col_1": "val_31", "col_3": "val_33" }
];

el_up.innerHTML = "Click on the button to create "
+ "the table from the JSON data.<br><br>"
+ JSON.stringify(list[0]) + "<br>"
+ JSON.stringify(list[1]) + "<br>"
+ JSON.stringify(list[2]);

```

```

function constructTable(selector) {
// Getting the all column names
var cols = Headers(list, selector);
// Traversing the JSON data
for (var i = 0; i < list.length; i++) {
var row = $('<tr/>');
for (var colIndex = 0; colIndex < cols.length; colIndex++)
{
var val = list[i][cols[colIndex]];
// If there is any key, which is matching
// with the column name
if (val == null) val = "";
row.append($('<td/>').html(val));
}
// Adding each row to the table
$(selector).append(row);
}
}

function Headers(list, selector) {
var columns = [];
var header = $('<tr/>');
for (var i = 0; i < list.length; i++) {
var row = list[i];
for (var k in row) {
if ($.inArray(k, columns) == -1) {
columns.push(k);
// Creating the header
header.append($('<th/>').html(k));
}
}
}
// Appending the header to the table

```

```
$(selector).append(header);
return columns;
}
```

```
</script>
```

```
</body>
```

```
</html>
```

Output:

Click on the button to create the table from the JSON data.

```
{ "col_1": "val_11", "col_3": "val_13" }
{ "col_2": "val_22", "col_3": "val_23" }
{ "col_1": "val_31", "col_3": "val_33" }
```

click here

col_1	col_3	col_2
val_11	val_13	
	val_23	val_22
val_31	val_33	

Practical – 20

Aim: Create the following tables in MYSQL.

Code:

```
CREATE TABLE DEPOSIT
```

```
(
```

```
    ACTNO int(5),
```

```
    CNAME varchar(20),
```

```
    BNAME varchar(20),
```

```
    AMOUNT float(10),
```

```
    ADATE date
```

```
);
```

```
insert into deposit
```

```
VALUES (100,"ANIL","VRCE",100000.00,"1995-04-01");
```

```
insert into deposit
```

```
VALUES (101,"SUNIL","AJNI",500000.00,"1996-01-04");
```

```
insert into deposit
```

```
VALUES (102,"MEHUL","KAROLBAGH",6500.00,"1995-11-17");
```

```
insert into deposit
```

```
VALUES (104,"MADHURI","CHANDI",5200.00,"1995-12-17");
```

```
insert into deposit
```

```
VALUES (105,"PRAMOD","M.G.ROAD",30000.00,"1996-03-27");
```

```
insert into deposit
```

```
VALUES (106,"SANDIP","ANDHERI",2500.00,"1996-03-31");
```

```
insert into deposit
```

```
VALUES (107,"SHIVANI","VIRAR",10000.00,"1995-09-05");
```

```
insert into deposit
```

```
VALUES (108,"KRANTI","NEHRU PLACE",50000.00,"1995-07-02");
```

```
insert into deposit
```

```
VALUES (109,"MINU","POWAI",70000.00,"1995-08-10");
```

Output:

ACTNO	CNAME	BNAME	AMOUNT	ADATE
100	ANIL	VRCE	100000	1995-04-01
101	SUNIL	AJNI	500000	1996-01-04
102	MEHUL	KAROLBAGH	6500	1995-11-17
104	MADHURI	CHANDI	5200	1995-12-17
105	PRAMOD	M.G.ROAD	30000	1996-03-27
106	SANDIP	ANDHERI	2500	1996-03-31
107	SHIVANI	VIRAR	10000	1995-09-05
108	KRANTI	NEHRU PLACE	50000	1995-07-02
109	MINU	POWAI	70000	1995-08-10

Code:

```
CREATE TABLE BRANCH
```

```
(
```

```
    BNAME varchar(20),
```

```
    CITY varchar(20)
```

```
);
```

insert into branch

VALUES ("VRCE","NAGPUR");

insert into branch

VALUES ("AJNI","NAGPUR");

insert into branch

VALUES ("KAROLBAGH","DELHI");

insert into branch

VALUES ("CHANDI","DELHI");

insert into branch

VALUES ("DHARAMPRTH","NAGPUR");

insert into branch

VALUES ("M.G.ROAD","BANGLORE");

insert into branch

VALUES ("ANDHERI","BOMBAY");

insert into branch

VALUES ("VIRAR","BOMBAY");

insert into branch

VALUES ("NEHRU PLACE","DELHI");

insert into branch

VALUES ("POWAI","BOMBAY");

Output:

BNAME	CITY
VRCE	NAGPUR
AJNI	NAGPUR
KAROLBAGH	DELHI
CHANDI	DELHI
DHARAMPRTH	NAGPUR
M.G.ROAD	BANGLORE
ANDHERI	BOMBAY
VIRAR	BOMBAY
NEHRU PLACE	DELHI
POWAI	BOMBAY

Code:

```
CREATE table CUSTOMER
```

```
(
```

```
    CNAME varchar(20),
```

```
    CITY varchar(20)
```

```
);
```

```
insert into customer
```

```
VALUES ("ANIL","CALCUTTA");
```

```
insert into customer
```

```
VALUES ("SUNIL","DELHI");
```

```
insert into customer
```

```
VALUES ("MEHUL","BARODA");
```

```
insert into customer
```

```
VALUES ("MANDAR","PATNA");
```

```
insert into customer
```

```
VALUES ("MADHURI","NAGPUR");
```

```
insert into customer
```

```
VALUES ("PRAMOD","NAGPUR");
```

```
insert into customer
```

```
VALUES ("SANDIP","SURAT");
```

```
insert into customer
```

```
VALUES ("SHIVANI","BOMBAY");
```

```
insert into customer
```

```
VALUES ("KRANTI","BOMBAY");
```

```
insert into customer
```

```
VALUES ("NAREN","BOMBAY");
```

Output:

CNAME	CITY
ANIL	CALCUTTA
SUNIL	DELHI
MEHUL	BARODA
MANDAR	PATNA
MADHURI	NAGPUR
PRAMOD	NAGPUR
SANDIP	SURAT
SHIVANI	BOMBAY
KRANTI	BOMBAY
NAREN	BOMBAY

1) Describe deposit, branch, customers.

Code:

DESCRIBE deposit;

DESCRIBE branch;

describe customer;

Output:

Your SQL query has been executed successfully.

DESCRIBE deposit;

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

Extra options

Field	Type	Null	Key	Default	Extra
ACTNO	int(5)	YES		NULL	
CNAME	varchar(20)	YES		NULL	
BNAME	varchar(20)	YES		NULL	
AMOUNT	float	YES		NULL	
ADATE	date	YES		NULL	

Your SQL query has been executed successfully.

DESCRIBE branch;

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

Extra options

Field	Type	Null	Key	Default	Extra
BNAME	varchar(20)	YES		NULL	
CITY	varchar(20)	YES		NULL	

Your SQL query has been executed successfully.

describe customer;

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

Extra options

Field	Type	Null	Key	Default	Extra
CNAME	varchar(20)	YES		NULL	
CITY	varchar(20)	YES		NULL	

2) List all data from table DEPOSIT.

Code:

SELECT * FROM

deposit;

Output:

Showing rows 0 - 8 (9 total, Query took 0.0004 seconds.)				
<code>SELECT * FROM deposit;</code>				
<input type="checkbox"/> Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code]				
<input type="checkbox"/> Show all Number of rows: 25 <input type="button" value="v"/> Filter rows:				
<input type="button" value="Extra options"/>				
ACTNO	CNAME	BNAME	AMOUNT	ADATE
100	ANIL	VRCE	100000	1995-04-01
101	SUNIL	AJNI	500000	1996-01-04
102	MEHUL	KAROLBAGH	6500	1995-11-17
104	MADHURI	CHANDI	5200	1995-12-17
105	PRAMOD	M.G.ROAD	30000	1996-03-27
106	SANDIP	ANDHERI	2500	1996-03-31
107	SHIVANI	VIRAR	10000	1995-09-05
108	KRANTI	NEHRU PLACE	50000	1995-07-02
109	MINU	POWAI	70000	1995-08-10

3) Give name of depositors having amount greater than 10000.

Code:

SELECT CNAME from

deposit

where AMOUNT >= 10000.00;

Output:

✓ Showing rows 0 - 5 (6 total, Query took 0.0006 seconds.)

```
SELECT CNAME from deposit where AMOUNT >= 10000.00;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

CNAME
ANIL
SUNIL
PRAMOD
SHIVANI
KRANTI
MINU

4) Give name of customers who opened account after date '1995-09-05'.

Code:

```
SELECT * FROM `deposit` WHERE ADATE > '1995-09-05';
```

Output:

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT * FROM `deposit` WHERE ADATE > '1995-09-05';
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

ACTNO	CNAME	BNAME	AMOUNT	ADATE
101	SUNIL	AJNI	500000	1996-01-04
102	MEHUL	KAROLBAGH	6500	1995-11-17
104	MADHURI	CHANDI	5200	1995-12-17
105	PRAMOD	M.G.ROAD	30000	1996-03-27
106	SANDIP	ANDHERI	2500	1996-03-31

5) Give maximum amount from branch CHANDI.

Code:

```
SELECT MAX(AMOUNT) from deposit WHERE BNAME='CHANDI';
```

Output:

✓ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT MAX(AMOUNT) from deposit WHERE BNAME='CHANDI';
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

MAX(AMOUNT)
5200

6) Count total number of customers

Code:

```
SELECT COUNT(CNAME) FROM deposit;
```

Output:

Your SQL query has been executed successfully.

```
SELECT COUNT(CNAME) FROM deposit;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Cancel](#)]

Extra options

COUNT(CNAME)

9

7) Delete the detail of deposit account whose actno is 109.

Code:

```
DELETE FROM deposit WHERE ACTNO='109';
```

Output:

✓ 1 row affected. (Query took 0.0005 seconds.)

```
DELETE FROM deposit WHERE ACTNO='109';
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

ACTNO	CNAME	BNAME	AMOUNT	ADATE
100	ANIL	VRCE	100000	1995-04-01
101	SUNIL	AJNI	500000	1996-01-04
102	MEHUL	KAROLBAGH	6500	1995-11-17
104	MADHURI	CHANDI	5200	1995-12-17
105	PRAMOD	M.G.ROAD	30000	1996-03-27
106	SANDIP	ANDHERI	2500	1996-03-31
107	SHIVANI	VIRAR	10000	1995-09-05
108	KRANTI	NEHRU PLACE	50000	1995-07-02

8)Add 10000 to balance whose deposit account number is 105.

Code:

```
UPDATE deposit SET AMOUNT=AMOUNT+10000 WHERE ACTNO='105';
```

Output:

✓ 1 row affected. (Query took 0.0004 seconds.)

```
UPDATE deposit SET AMOUNT=AMOUNT+10000 WHERE ACTNO='105';
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

ACTNO	CNAME	BNAME	AMOUNT	ADATE
100	ANIL	VRCE	100000	1995-04-01
101	SUNIL	AJNI	500000	1996-01-04
102	MEHUL	KAROLBAGH	6500	1995-11-17
104	MADHURI	CHANDI	5200	1995-12-17
105	PRAMOD	M.G.ROAD	40000	1996-03-27
106	SANDIP	ANDHERI	2500	1996-03-31
107	SHIVANI	VIRAR	10000	1995-09-05
108	KRANTI	NEHRU PLACE	50000	1995-07-02

9)Display the current date and time.

Code:

```
SELECT sysdate()
```

Output:

✓ Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)

```
SELECT sysdate();
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

sysdate()

2022-06-19 20:47:35

From the above given tables perform the following queries:

1) Give all details of customers SANDIP

Code:

```
SELECT * FROM deposit WHERE CNAME='SANDIP';
```

Output:

✓ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT * FROM deposit WHERE CNAME='SANDIP';
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

ACTNO	CNAME	BNAME	AMOUNT	ADATE
106	SANDIP	ANDHERI	2500	1996-03-31

2) Give all the account number of customers living in BOMBAY city.

Code:

```
SELECT ACTNO FROM deposit join customer on deposit.CNAME=customer.CNAME
WHERE customer.CITY='BOMBAY';
```

Output:

✓ Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

```
SELECT ACTNO FROM deposit join customer on deposit.CNAME=customer.CNAME WHERE customer.CITY='BOMBAY';
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: Filter rows:

Extra options

ACTNO
107
108

3) Transfer 1000 Rupees from account of Anil to Sunil

Code:

UPDATE deposit set AMOUNT=AMOUNT+1000 where CNAME='SUNIL';

UPDATE deposit set AMOUNT=AMOUNT-1000 where CNAME='ANIL';

Output:

✓ 1 row affected. (Query took 0.0004 seconds.)

```
UPDATE deposit set AMOUNT=AMOUNT+1000 where CNAME='SUNIL';
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row affected. (Query took 0.0004 seconds.)

```
UPDATE deposit set AMOUNT=AMOUNT-1000 where CNAME='ANIL';
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

ACTNO	CNAME	BNAME	AMOUNT	ADATE
100	ANIL	VRCE	99000	1995-04-01
101	SUNIL	AJNI	501000	1996-01-04
102	MEHUL	KAROLBAGH	6500	1995-11-17
104	MADHURI	CHANDI	5200	1995-12-17
105	PRAMOD	M.G.ROAD	40000	1996-03-27
106	SANDIP	ANDHERI	2500	1996-03-31
107	SHIVANI	VIRAR	10000	1995-09-05
108	KRANTI	NEHRU PLACE	50000	1995-07-02

Lab-9

Aim: Create registration form (include username and password field) and store information to the database when user submit data.

Program code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Create Record</title>

  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">

  <style type="text/css">

    .wrapper{

      width: 500px;

      margin: 0 auto;

    }

  </style>

</head>

<body>

  <div class="wrapper">

    <div class="container-fluid">

      <div class="row">
```

```

<div class="col-md-12">

    <div class="page-header">

        <h2>Registration Form</h2>

    </div>

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

        <div class="form-group">

            <label>Username</label>

            <input type="text" name="username" class="form-control">

        </div>

        <div class="form-group">

            <label>Email</label>

            <input type="text" name="email" class="form-control">

        </div>

        <div class="form-group">

            <label>Password</label>

            <input type="password" name="password" class="form-control">

        </div>

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

    </form>

</div>

</div>

</div>

</div>

</body>

</html>

```

PHP CODE:

```

<?php

$conn=mysqli_connect("localhost","root","","mydb");

if(!$conn){

    die('Could not Connect MySQL Server:' .mysql_error());

}

```

```

if(isset($_POST['submit']))
{
    $u = $_POST['username'];
    $p = $_POST['password'];
    $e = $_POST['email' ];

```

Registration Form



The image shows a registration form with three input fields and a submit button. The first field is labeled 'Username' and contains the text 'Vraj'. The second field is labeled 'Email' and contains the text 'vraj@nuv.ac.in'. The third field is labeled 'Password' and contains a series of asterisks. Below the fields is a blue button labeled 'Submit'.

Aim: Create login page and perform authentication using Mysql and Php

Program code:

HTML:

```

<html>

<head>

    <title>login page</title>

</head>

<body>

    <form method="post" action="welcome.html">

        <div id="div_login">

            <h1>Login</h1>

            <div>

                <input type="text" class="textbox" id="uname" name="uname"
placeholder="Username">

            </div>

            <div>

                <input type="text" class="textbox" id="email" name="email"
placeholder="Email">

            </div>

            <div>

                <input type="password" class="textbox" id="password" name="password"
placeholder="Password">

            </div>

```

```

        <div>
            <input type="submit" value="Submit" name="but_submit" id="submit">
        </div>
    </div>
</form>
</body>
</html>

```

WELCOME PAGE

```

<!doctype html>
<html>
    <head></head>
    <body>
        <h1>Welcome, login successful</h1>
        <form method='post' action="">
            <input type="submit" value="Logout" name="logout">
        </form>
    </body>
</html>

```

PHP CODE

```

<?php
$conn=mysqli_connect("localhost","root","","mydb");
if(!$conn){
    die('Could not Connect MySql Server:' .mysql_error());
}
if(isset($_POST['submit'])){
    $uname = mysqli_real_escape_string($con,$_POST['uname']);
    $email = mysqli_real_escape_string($con,$_POST['email']);
    $password = mysqli_real_escape_string($con,$_POST['password']);
    if ($uname != "" && $password != ""){
        $sql_query = "select count(*) as cntUser from users where username='".$uname.'"and
email='".$email.'" and password='".$password.'";
        $result = mysqli_query($con,$sql_query);
        $row = mysqli_fetch_array($result);
    }
}

```

```

$count = $row['cntUser'];
if($count > 0){
    $_SESSION['uname'] = $uname;
    header('Location: home.php');
}else{
    echo "Invalid username and password";
}
}
?>

```

Output:

Welcome, login successful

Logout

Aim: Fetch the User information from database and show it in table format.

Program code:

PHP CODE

```

<?php
$conn=mysqli_connect("localhost","root","","info");
if(!$conn){
    die('Could not Connect MySql Server:' .mysql_error());
}
$sql = "SELECT BNAME, CITY FROM branch";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    echo "<table border='solid 2px black'><tr><th>BNAME</th><th>CITY</th></tr>";
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>".$row["BNAME"]."</td><td>".$row["CITY"]."</td></tr>";
    }
    echo "</table>";
}

```

```

} else {
    echo "0 results";
}
$conn->close();
?>

```

Output:

BNAME	CITY
AJNI	NAGPUR
KAROLBAGH	DELHI
CHANDI	DELHI
DHARAMPRTH	NAGPUR
M.G.ROAD	BANGLORE
ANDHERI	BOMBAY
VIRAR	BOMBAY
NEHRU PLACE	DELHI
POWAI	BOMBAY

LAB10

Aim: Write a script that shows user information stored in JSON file when the user clicks on the button without reloading the webpage.

Program code:

HTML AND AJAX CODE

```

<html>
<head>
    <meta charset="utf-8">
    <title>Show info</title>
    <style>
        body {
            text-align: center;
        }
        table {
            border: 2px solid black;
        }
        caption {

```

```

        margin: 10px 0;
    }
    tr {
        height: 30px;
    }
    th,
    td {
        border: 1px solid black;
        width: 100px;
    }

    .info {
        display: flex;
        justify-content: center;
    }
    button {
        margin: 20px 0;
        height: 40px;
        width: 100px;
        cursor: pointer;
    }
</style>
</head>
<body>
    <div class="info">
        <table>
            <caption>players and their high-score</caption>
            <th>players</th>
            <th>high-score</th>
            <tr>
                <td class="players"></td>
                <td class="high_score"></td>
            </tr>

```

```

<tr>
  <td class="players"></td>
  <td class="high_score"></td>
</tr>
<tr>
  <td class="players"></td>
  <td class="high_score"></td>
</tr>
<tr>
  <td class="players"></td>
  <td class="high_score"></td>
</tr>
<tr>
  <td class="players"></td>
  <td class="high_score"></td>
</tr>
</table>
</div>
<button id="fetchBtn" type="button" name="button">Fetch</button>
<script>
  const fetchBtn = document.getElementById("fetchBtn");
  const players = document.getElementsByClassName("players");
  const high_score = document.getElementsByClassName("high_score");
  fetchBtn.addEventListener("click", buttonHandler);
  // Defining buttonHandler function
  function buttonHandler() {
    // First create an XMLHttpRequest object
    const xhr = new XMLHttpRequest();
    xhr.open("GET", "names.json", true);
    xhr.getResponseHeader("Content-type", "application/json");
    xhr.onload = function() {
      const obj = JSON.parse(this.responseText);

```



```
        Array.from(players).forEach((name, index) => {
            name.innerText = obj.players_high_score[index].name;
        });
        Array.from(high_score).forEach((high_score, index) => {
            high_score.innerText = obj.players_high_score[index].high_score;
        });
    }
    xhr.send();
}
</script>
</body>
</html>
```

JSON CODE

```
{
  "players_high_score":[
    {
      "name":"M.S.DHONI",
      "high_score":178
    },
    {
      "name":"DAVID MILLER",
      "high_score":96
    },
    {
      "name":"K.L.RAHUL",
      "high_score":199
    },
    {
      "name": "HARDIK PANDYA",
      "high_score":91
    },
    {
```

```

    "name": "VIRAT KOHLI",
    "high_score": "246"
  }
]
}

```

Output:

players and their high-score

players	high-score
M.S.DHONI	178
DAVID MILLER	96
K.L.RAHUL	199
HARDIK PANDYA	91
VIRAT KOHLI	246

Fetch

AIM: Write script that show the updated value of number of likes, if user clicks on Like button without refreshing/reloading the webpage.

CODE:

HTML:

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
  <button onclick="loadLikes()">Like</button>
```

```
  <p id='demo'>Number of likes:
```

```
    <?php
```

```
    $conn = mysqli_connect("localhost", "root", "", "college");
```

```
    $sql = "SELECT clicks FROM liketable";
```

```
    $result = mysqli_query($conn, $sql);
```

```
    $r = mysqli_fetch_assoc($result);
```

```
    echo $r["clicks"];
```

```
    ?>
```

```
  </p>
```

```
</div>
```

```
<script>
    function loadLikes() {
        var xhr = new XMLHttpRequest();
        xhr.open("get", "SQL.php", true);
        xhr.send();
        xhr.onload = function() {
            document.getElementById("demo").innerHTML = "Number of likes:" +
this.responseText;
        }
    }
</script>
</body>
</html>
```

PHP:

```
<?php
$servername = "localhost";
$username = "root";
$password = "";

$conn = mysqli_connect($servername, $username, $password, "college");
$sql = "update liketable set clicks=clicks+1;";
mysqli_query($conn, $sql);

$sql = "SELECT clicks FROM liketable";
$result = mysqli_query($conn, $sql);
$r = mysqli_fetch_assoc($result);
echo $r["clicks"];
?>
```

OUTPUT:

like

Number of likes: 11