Experiment No.1

Aim:- Design the static web pages required for an online book store web site.

Code:-

home.html:

```
<frameset rows="40%,*">
        <frame src="top.html" noresize scrolling="NO" name="topframe">
<frameset cols="15%,*">
        <frame src="left.html" noresize scrolling="NO" name="leftframe">
        <frame src="right.html" noresize name="rightframe" scrolling="auto">
</frameset>
</frameset>
```

top.html:

```
<html>
 <head>
    <title>Top Frame</title>
 </head>
<body bgcolor="YellowGreen ">
    <img src="images/logo1.png" width="125" height="115" align="left">
    <img src="images/cse.png" width="125" height="115" align="right">
 <center>
   <marquee bgcolor="yellow" width="650" behavior="alternate">
   <font face="Brush Script MT" size="8" color="green"><b><i>Online Book
   Store</i></b>
       </font>
   </marquee> <br>
<font   face="Brush   Script"  size="6"   color="white"><b>Created   &
       Maintained    By MRCET</b></font>
  </center>
<br>
<table width="100%" height="50%" cellspacing=10>
<tr align="center">
       <td>  <a href="Home.html" target="_parent"><font face="Brush
Script" size="6" color="navy">HOME </a> </td>
       <td> <a href="login.html" target="rightframe"><font face="Brush Script"
size="6" color="navy">LOGIN</a> </td>
       <td> <a href="registration.html" target="rightframe"> <font
face="Brush Script" size="6" color="navy">REGISTER </a> </td>
       <td> <a href="catalogue.html" target="rightframe"> <font
face="Brush Script" size="6" color="navy">CATALOGUE</a> </td>
   </tr>
  </table>
 </body>
</html>
```

left.html:

```html
<html>
  <body align="center" bgcolor="bisque"> <br>
    <a href="cse.html" target="rightframe"><font size="6">CSE</font></a><br><br>
    <a href="ece.html" target="rightframe"><font size="6">ECE</font></a><br><br>
    <a href="eee.html" target="rightframe"><font size="6">EEE</font></a><br><br>
    <a href="mech.html" target="rightframe"><font size="6">MECH</font></a><br>
  </body>
</html>
```

right.html:

```html
<html>
  <body bgcolor="orange">
   <center>
    <img src="images/Books.jpg" height="170"><br>
    <font face="Brush Script MT" size="5" color="blue">
      <h1><b>Welcome to the Online Book Store!!!</b></font><br />
    <font face="Brush Script MT" size="5" color="red">
      <h2><b> "A Huge Collection Of Engineering E-Books"</b></h2></font>
   </center>
  </body>
</html>
```

cse.html:

```html
<html>
    <head><title>CSE</title></head>
 <body bgcolor="cyan">
 <center><font color="blue"><h1>Computer Science and
 Engineering</h1></font></center>
<br>
    <table align="center">
    <tr>
        <td>Text Books</td>
        <td>
        <select >
            <option value="select the book" selected>Select the book
            <option value="C&Ds">C&Ds
            <option value="Ads">Ads
            <option value="Java">Java
            <option value="Oracle">Oracle
            <option value="Ms SQL Server">Ms SQL Server
            <option value="MySql">MySql
        </select>
         </td></tr>
    <tr>
        <td>Quantity</td>
        <td><input type="text" id="q"></td>
```

```
        </tr>
        <tr>
           <td></td>
           <td>
        <form method=post action="order.html">
             <input type="submit" value=ok />
           </form>
        </td>
    </tr>
 </table>
<center>
      <pre> Cost of one book is"500" + shipping "100"
                                </pre>
</center>
 </body>
 </html>
```

ece.html:

```
<html>
    <body bgcolor="Plum">
        <h1><font color="blue">Electronics and Communication
        Engineering</font></h1>
        <h2>
        <ul>
    <li>Digital Circuits</li>   <li>Signals and Systems</li>  <li>Digital
    Communication</li>
        </ul>
        </h2>
    </body>
</html>
```

eee.html:

```
<html>
    <body bgcolor="Plum">
        <h1><font color="blue">Electrical and Electronics Engineering</font></h1>
        <h2>
            <ul type="square">
                <li>Concepts in Electric Circuits</li>
                <li>Introduction to Electronic Engineering</li>
                <li>Electrical Power</li>
            </ul>
        </h2>
    </body>
</html>
```

mech.html:

```
<html>
```

```html
    <body bgcolor="Plum">
      <h1><font color="blue">Electronics and Communication Engineering</font></h1>
      <h2>
        <ol type="I">
                <li>Theory of Machines</li>
                <li>Automation and Robotics</li>
                <li>Engineering Fluid Mechanics</li>
        </ol>
        </h2>
        </body>
        </html>
```

catalogue.html:

```html
<html>
  <head>
      <title> Catalogue </title>
    </head>
<body bgcolor="pink">
  <form action="order.html">
    <table border="1" width="100%">
      <tr>
        <td>
          <img src="images/wt.jpg" width=100 height=100/>
        </td>
        <td> Book: Web Technologies <br> Author: Uttam K. Roy <br>
            Publication:Oxford University Press</td> <td>531
               </td>
        <td> <input type="submit" value="Add to cart"/></td> </tr>
      <tr>
        <td> <img src="images/php.jpg" width=100 height=100/></td>
        <td> Book: PHP & MySQL Web Development <br> Author:Luke Welling
          & Laura Thompson <br> Publication:PEARSON</td> <td> 898
              </td>
        <td> <input type="submit" value="Add to cart"/></td> </tr>
  </table> </form>
  </body> </html>
```
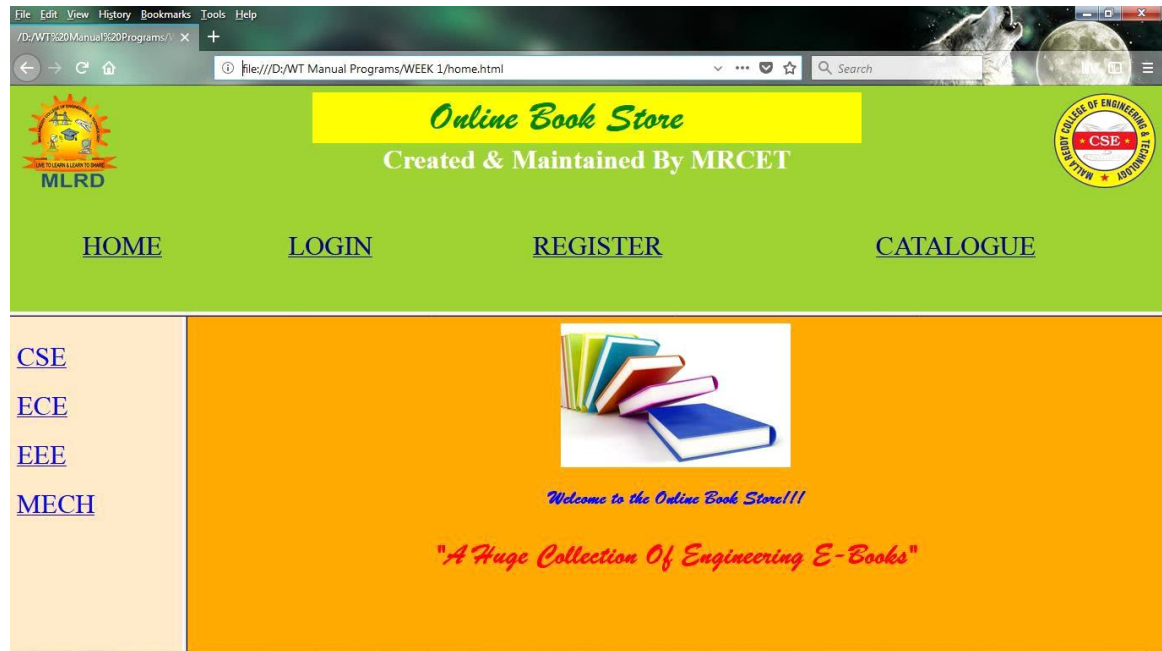
login.html:

```html
<html>
  <body bg color="pink">
    <basefont face="Cambria" size="4"> <br>
    <center>
     <img src="images/login.jpg" width="385" height="135" /><br />
      <font face="Brush Script MT" size="7" color="purple">
        <b>Enter Login Details:</b>
  </font>
</center>
      <form name="f1" method="post" action="right.html">
```
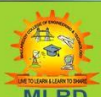
```html
    <table align="center" width="100" height="150" cellspacing="15">
     <tr><td><b>Login ID:</b></td>
        <td><input type="text" name="t1"></td>
     </tr>
     <tr>
        <td><b>Password:</b></td>
        <td><input type="password" name="t2"></td>
     </tr>
     <tr align="center">
        <td><input type="submit" name="b1" value="Submit"></td>
        <td><input type="reset" name="b2" value="Reset"></td>
     </tr>
    </table>    </form>    </basefont>    </body>    </html>
```

registration.html:

```html
<html>
<head><title>Registration Form</title></head>
<body bgcolor="#E4F0F8">
<center><font color="blue" size="6" face="arial">Registration Form</font></center><br
/>
<form action="right.html">
    First Name(Minimum 6 characters)<font color="red">* </font>
      <input type='text'  id='firstname' /><br /><br />
    Last Name<font color="red"><font color="red">* </font> </font>
       
      <input type='text' id='lastname' /><br /><br />
    EmailAddress<font color="red">* </font>
       
      <input type='text' id='email' /><br />
  <font color="red">(one e-mail id only):</font>    
  <font color="redblue">e.g. smith@hotmail.com</font><br /><br/>
    Password(minimum 6 characters)<font color="red">* </font>
       
      <input type='password' id='pass'><br /><br/>
    Address<font color="red">* </font>
       
      <textarea rows="2" cols="20" id='addr' /></textarea> <br
    /> <br/> Mobile No<font color="red">* </font>
       
      <input type='text' id='mobileno'
    /><br /> Gender: <input type='radio'
    name="gender">male
            <input type='radio' name="gender">female<br/><br />
      <input type='Submit' value='submit' />
      <input type='Reset' value='reset' />
</form>        </body>            </html>
```

order.html:

```
<html>
  <head><title>order conformation</title></head>
    <body bgcolor="cyan">
      <centre>
         <pre><strong>
         <b>Your order Is Conformed
         </strong></pre>
         <h2><b>THANK YOU...Visit Again</h2>
      </centre>
    </body>
</html>
```

Output:-

Online Book Store
Created & Maintained By MRCET

MLRD

HOME   **LOGIN**   **REGISTER**   **CATALOGUE**

CSE
ECE
EEE
MECH

LOGIN

Enter Login Details:

Login ID: [_____]

Password: [_____]

[Submit]   [Reset]

Online Book Store
Created & Maintained By MRCET

MLRD

HOME   **LOGIN**   **REGISTER**   **CATALOGUE**

CSE
ECE
EEE
MECH

Registration Form

First Name(Minimum 6 characters)* [_____]

Last Name* [_____]

EmailAddress* [_____]
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)* [_____]

Address* [_____]

Mobile No* [_____]
Gender: ○ male ○ female

[submit] [reset]

Online Book Store
Created & Maintained By MRCET

MLRD

HOME   **LOGIN**   **REGISTER**   **CATALOGUE**

CSE
ECE
EEE
MECH

Web Technologies	Book: Web Technologies Author: Uttam K. Roy Publication:Oxford University Press	531	[Add to cart]
PHP and MySQL Web Development	Book: PHP & MySQL Web Development Author:Luke Welling & Laura Thompson Publication:PEARSON	898	[Add to cart]

Online Book Store
Created & Maintained By MRCET

HOME   LOGIN   REGISTER   CATALOGUE

CSE
ECE
EEE
MECH

Computer Science and Engineering

Text Books Web Technologies ▼
Quantity   2
            ok

Cost of one book is"500" + shipping "100"

Online Book Store
Created & Maintained By MRCET

HOME   LOGIN   REGISTER   CATALOGUE

CSE
ECE
EEE
MECH

Your order Is Conformed
THANK YOU...Visit Again

Online Book Store
Created & Maintained By MRCET

HOME   LOGIN   REGISTER   CATALOGUE

CSE
ECE
EEE
MECH

Electronics and Communication Engineering

- Digital Circuits
- Signals and Systems
- Digital Communication

Online Book Store
Created & Maintained By MRCET

HOME   LOGIN   REGISTER   CATALOGUE

CSE
ECE
EEE
MECH

Electrical and Electronics Engineering

- Concepts in Electric Circuits
- Introduction to Electronic Engineering
- Electrical Power

Online Book Store
Created & Maintained By MRCET

HOME   LOGIN   REGISTER   CATALOGUE

CSE
ECE
EEE
MECH

Mechanical Engineering

I. Theory of Machines
II. Automation and Robotics
III. Engineering Fluid Mechanics

Experiment No. 2

Aim:- Write JavaScript to validate the fields of registration page.

Code:-

```
<!DOCTYPE html>

<html>

<head>

   <title>Registration Form Validation</title>

   <script type="text/javascript">

     function formValidator() {

        var firstname = document.getElementById('firstname');

        var lastname = document.getElementById('lastname');

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

        var pass = document.getElementById('pass');

        var addr = document.getElementById('addr');

        var mobileno = document.getElementById('mobileno');


        if (notEmpty(firstname, "First name cannot be empty")) {

          if (isAlphabet(firstname, "Please enter only letters for your Firstname")) {

            if (lengthRestriction(firstname, 6)) {

              if (isAlphabet(lastname, "Please enter only letters for your Lastname")) {

                if (emailValidator(email, "Please enter a valid email address")) {

                  if (lengthRestriction(pass, 6)) {

                    if (isAlphanumeric(pass, "Please enter Numbers and Letters Only for password"))
{

                      if (notEmpty(addr, "Please enter the address")) {

                        if (isNumeric(mobileno, "Please enter a valid mobile number")) {

                          if (lengthRestriction1(mobileno, 10, 10)) {

                            return true;

                          }

                        }

                      }
```

```javascript
                }
              }
            }
          }
        }
      }
    }
    return false;
}


function notEmpty(elem, helperMsg) {
    if (elem.value.trim().length === 0) {
        alert(helperMsg);
        elem.focus();
        return false;
    }
    return true;
}


function isNumeric(elem, helperMsg) {
    var numericExp = /^[0-9]+$/;
    if (elem.value.match(numericExp)) {
        return true;
    } else {
        alert(helperMsg);
        elem.focus();
        return false;
    }
}


function isAlphabet(elem, helperMsg) {
```

```javascript
    var alphaExp = /^[a-zA-Z]+$/;

    if (elem.value.match(alphaExp)) {

        return true;

    } else {

        alert(helperMsg);

        elem.focus();

        return false;

    }

}


function isAlphanumeric(elem, helperMsg) {

    var alphaNumExp = /^[0-9a-zA-Z]+$/;

    if (elem.value.match(alphaNumExp)) {

        return true;

    } else {

        alert(helperMsg);

        elem.focus();

        return false;

    }

}


function lengthRestriction(elem, min) {

    if (elem.value.length >= min) {

        return true;

    } else {

        alert("Please enter at least " + min + " characters");

        elem.focus();

        return false;

    }

}
```

```
        function lengthRestriction1(elem, min, max) {

            if (elem.value.length >= min && elem.value.length <= max) {

                return true;

            } else {

                alert("Please enter exactly " + max + " digits for Mobile Number");

                elem.focus();

                return false;

            }

        }


        function emailValidator(elem, helperMsg) {

            var emailExp = /^[\w\.\+\-]+@[a-zA-Z0-9\-]+\.[a-zA-Z]{2,4}$/;

            if (elem.value.match(emailExp)) {

                return true;

            } else {

                alert(helperMsg);

                elem.focus();

                return false;

            }

        }

    </script>

</head>

<body bgcolor="#E4F0F8">

    <center><font color="blue" size="6" face="arial">Registration Form</font></center><br />

    <form onsubmit="return formValidator()" action="right.html">

        First Name (Minimum 6 characters)<font color="red">*</font><br />

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


        Last Name<font color="red">*</font><br />

        <input type="text" id="lastname" /><br /><br />
```

```html
Email Address<font color="red">*</font><br />
<input type="text" id="email" /><br />
<small><font color="blue">e.g. smith@hotmail.com</font></small><br /><br />


Password (Minimum 6 characters)<font color="red">*</font><br />
<input type="password" id="pass" /><br /><br />


Address<font color="red">*</font><br />
<textarea rows="2" cols="20" id="addr"></textarea><br /><br />


Mobile No<font color="red">*</font><br />
<input type="text" id="mobileno" /><br /><br />


Gender:<br />
<input type="radio" name="gender" /> Male
<input type="radio" name="gender" /> Female<br /><br />


<input type="submit" value="Submit" />
<input type="reset" value="Reset" />
</form>
</body>
</html>
```
Output:-

Registration Form

First Name(Minimum 6 characters)*

Last Name*

EmailAddress*
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*
Gender: male female

submit reset

can not be null

OK

Registration Form

First Name(Minimum 6 characters)* 78787

Last Name*

EmailAddress*
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*
Gender: male female

submit reset

Please enter only letters for your Firstname

OK

Registration Form

First Name(Minimum 6 characters)* fds

Last Name*

EmailAddress*
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*
Gender: male female

submit reset

Please enter minimum 6 characters

OK

Registration Form

First Name(Minimum 6 characters)* mrcetcse

Last Name*

EmailAddress*
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*
Gender: male female

submit reset

Please enter only letters for your Lastname

OK

file:///D:/WT Manual Programs/validation.html   •••   ☑ ☆   Q Search   ☰

Registration Form

First Name(Minimum 6 characters)*   mrcetcse

Last Name*   thirdyear

EmailAddress*
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*
Gender: ○ male ○ female

submit   reset

Please enter a valid email address

OK

---

file:///D:/WT Manual Programs/validation.html   •••   ☑ ☆   Q Search   ☰

Registration Form

First Name(Minimum 6 characters)*   mrcetcse

Last Name*   thirdyear

EmailAddress*   mrcetcse@gmail.com
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*
Gender: ○ male ○ female

submit   reset

Please enter minimum 6 characters
☐ Prevent this page from creating additional dialogs

OK

---

file:///D:/WT Manual Programs/validation.html   •••   ☑ ☆   Q Search   ☰

Registration Form

First Name(Minimum 6 characters)*   mrcetcse

Last Name*   thirdyear

EmailAddress*   mrcetcse@gmail.com
(one e-mail id only):   e.g. smith@hotmail.com
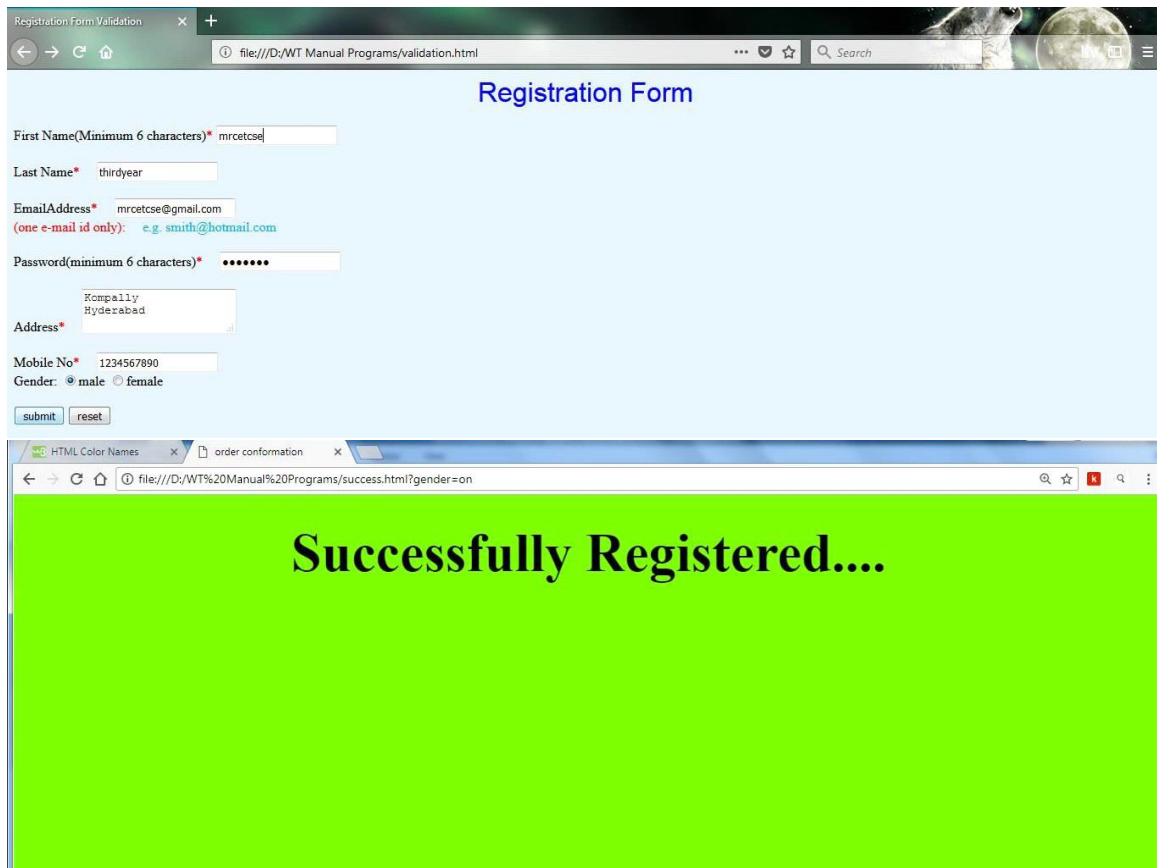
Password(minimum 6 characters)*   ●●●●●●

Address*

Mobile No*
Gender: ○ male ○ female

submit   reset

please enter the address

OK

---

file:///D:/WT Manual Programs/validation.html   •••   ☑ ☆   Q Search   ☰

Registration Form

First Name(Minimum 6 characters)*   mrcetcse

Last Name*   thirdyear

EmailAddress*   mrcetcse@gmail.com
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)*   ●●●●●●

Address*   Kompally
           Hyderabad

Mobile No*   123456
Gender: ○ male ○ female

submit   reset

Please enter 10 numbers only

OK

Registration Form Validation   ×   +

file:///D:/WT Manual Programs/validation.html

Registration Form

First Name(Minimum 6 characters)* mrcetcse

Last Name* thirdyear

EmailAddress* mrcetcse@gmail.com
(one e-mail id only):   e.g. smith@hotmail.com

Password(minimum 6 characters)* ●●●●●●

Address*   Kompally
            Hyderabad

Mobile No* 1234567890
Gender: ◉ male ○ female

submit   reset

HTML Color Names   ×   order conformation   ×

file:///D:/WT%20Manual%20Programs/success.html?gender=on

Successfully Registered....

Experiment no. 3)

Aim:- Develop and demonstrate the usage of Inline, Internal and External style sheet using CSS.

Code:-

style.css

```css
p.left {
  text-align: left;
  color: blue;
  font-family: Cambria;
  font-size: large;
  text-indent: 20px;
}
p.center {
  text-align: center;
  text-decoration: underline;
  text-transform: uppercase;
  letter-spacing: -3px;
  word-spacing: 20px;
  font-size: larger;
}
p.right {
  text-align: right;
  color: red;
  font-family: Tahoma;
  font-size: 15pt;
  text-decoration: overline;
  font-style: italic;
}
b#headline {
  color: orange;
  font-size: 22px;
  font-family: Arial;
```

```css
  text-decoration: underline;
}
```
sample.html

```html
<html>
<head>
  <style type="text/css">
    body {
      background-image: url('images/cse.png');
      background-repeat: no-repeat;
      background-position: center center;
      background-attachment: fixed;
      background-color: pink;
    }

    a:link {
      text-decoration: none;
      color: orange;
    }

    a:visited {
      text-decoration: none;
      color: red;
    }

    a:hover {
      text-decoration: underline;
      color: blue;
    }

    a:active {
      text-decoration: underline;
```

```
      color: purple;
    }


    h3 {
      color: green;
    }


    .c1 { cursor: crosshair; }
    .c2 { cursor: pointer; }
    .c3 { cursor: move; }
    .c4 { cursor: text; }
    .c5 { cursor: wait; }
    .c6 { cursor: help; }
  </style>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body bgcolor="cyan">
  <h1 style="color:blue; text-align:center;">CSS (Inline, Internal and External)</h1>

  <p>This Paragraph is a Not Styled</p>
  <p class="left">This Paragraph is Styled by class "Left"</p>
  <p class="center">This Paragraph is Styled by class "Center"</p>
  <p class="right">This Paragraph is Styled by class "Right"</p>

  <b>This is normal Bold</b> <br>
  <b id="headline">This Bold Text is Styled</b>

  <h2><b><a href="#">This is a link</a></b></h2>

  <h3 class="c1">The cursor over this element is plus sign</h3>
  <h3 class="c2">The cursor over this element is a pointing hand</h3>
```

```
<h3 class="c3">The cursor over this element is a grasping hand</h3>

<h3 class="c4">The cursor over this element is a I bar</h3>

<h3 class="c5">The cursor over this element is a wait</h3>

<h3 class="c6">The cursor over this element is a question mark</h3>

</body>

</html>
```

Output:-

Experiment No. 4)

Aim:- Develop and demonstrate JavaScript with POP-UP boxes and functions for given problems.

Code:-

date.html

```
<html>
<body>
  <script>
  function display(){
  var x="You
  have clicked";
  var d=new
  Date();
  var date=d.getDate();
  var
  month=d.get
  Month();
  month++;
  var year=d.getFullYear();
  document.getElementById("dis").value=date+"/"+month+"/"+year;
  }
  </script>
<form>
<input type="text" id="dis" /><br />
<input type="button" value="Display Date" onclick="display()" />
</form>
<body>
</html>
```

Output:-

factorial.html

```
<html>

<head>

<title>Factorial</title>

<script type="text/javascript">

function factorialcalc() {

  var number = parseInt(prompt("Enter a number, I'll calculate its factorial", "Whole
numbers bigger than zero, please"));
```

```
    if (isNaN(number) || number < 0) {

      alert("Please enter a valid whole number greater than or equal to 0.");

       return;

      }


      var factorial = 1;

      for (var i = 1; i <= number; i++) {

       factorial *= i;

      }


      alert("The factorial of " + number + " is " + factorial);

     }

    </script>

    </head>

    <body>

     <form name="frm">

       <input type="button" value="Factorial" onclick="factorialcalc();">

      </form>

     </body>

     </html>
```

multable.html

```
<html>

<head><title>Multiplication Table</title></head>

<body>

<script type="text/javascript">

 var n = prompt("Enter a positive value for n:", " ");

 if (!isNaN(n) && n > 0) {

  var table = "";

  var number = "";

  for (var i = 1; i <= 10; i++) {

   number = n * i;

   table += n + " * " + i + " = " + number + "\n";

  }
```

```
    alert(table);

    document.write(n + " table values displayed using alert..<br />");

  } else {

    alert("Please enter a positive numeric value.");

  }

</script>

</body>

</html>
```

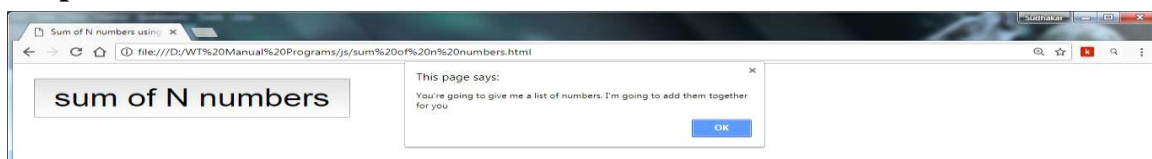sum of n numbers.html

```
    <html>
      <head><title>sum of n numbers using popup boxes</title>
     <script
       language='javas
       cript'> function
       addsum()
         {
        alert("you're going to give me a list of numbers. i'm going to add them together
            for you"); var keepgoing = true
            var
            sumofnum
            s = 0
            while
            (keepgoin
            g) {
            sumofnums = sumofnums + parseint(prompt("what's the next number to
            add?","")) keepgoing = confirm("add another number?")
            }
        alert("the sum of all your numbers is " + sumofnums)
          }
     </script>
     </head>
     <body>
       <form name=frm>
        <input type=button value='sum of n numbers' onclick="addsum();">
       </form>
     </body>
</html>
```
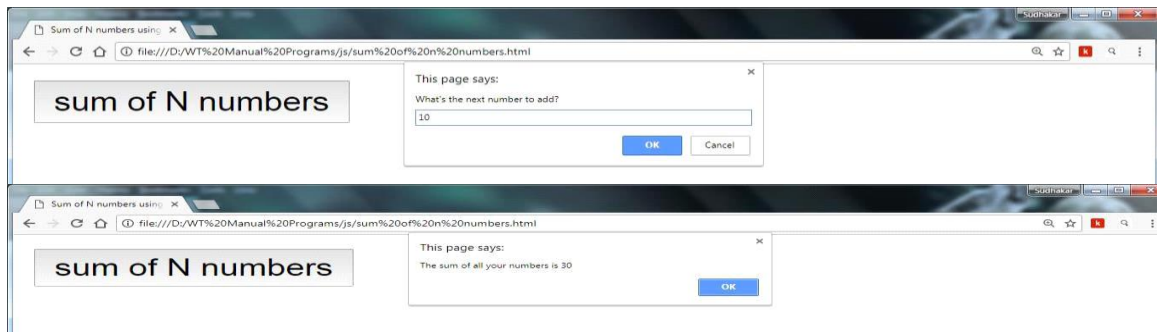
Output:-

Experiment No. 5)

Aim:- 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 in the list. Add CSS to customize the properties of the font of the capital (color,bold and font size).

Code:-

```html
<html>
<head>
<title>WT Lab manual program no. 3</title>
</head>
<style>
h1 {
    color: red;
    text-align: center;
}
.textbox1 {
    color: blue;
    font-size: 30px;
    font-weight: bold;
}
</style>
<body>
<center>
<h1> Select the country name to find its capital</h1>
<form name="myform">
Select Country
<select name="country" id="sbox1" onchange="myFunction()" required>
    <option value=""></option>
    <option value="NEW DELHI">INDIA</option>
    <option value="CANBERRA">AUSTRALIA</option>
    <option value="WASHINGTON D.C">AMERICA</option>
    <option value="LONDON">UNITEDKINGDOM</option>
    <option value="BERLIN">GERMANY</option>
</select>
<br><br>
<input type="text" class="textbox1" id="sbox2">
</form>
</center>
<script>
function myFunction() {
    var a = document.getElementById("sbox1").value;
    document.getElementById("sbox2").value = a;
}
</script>
</body>
</html>
```

Output:-

Experiment Nn. 6)

Aim:- Write an HTML page including any required JavaScript that takes a number from text field in the range of 0 to 999 and shows it in words. It should not accept four and above digits, alphabets and special characters.

Code:-

0-999.html

```
<html>
<head>
<title>HTML - Convert numbers to words using JavaScript</title>
<script language="Javascript">
function isNumberKey(evt) {
   var charCode = (evt.which) ? evt.which : evt.keyCode;
   if (charCode != 46 && charCode > 31 && (charCode < 48 || charCode > 57))
      return false;
   return true;
}
</script>

<script>
function NumToWord(inputNumber, outputControl) {
   var str = String(inputNumber);
   var splt = str.split("");
   var rev = splt.reverse();

   var once = ['Zero', ' One', ' Two', ' Three', ' Four', ' Five', ' Six', ' Seven', ' Eight', ' Nine'];
   var twos = ['Ten', ' Eleven', ' Twelve', ' Thirteen', ' Fourteen', ' Fifteen', ' Sixteen', ' Seventeen', ' Eighteen', ' Nineteen'];
   var tens = ['', 'Ten', ' Twenty', ' Thirty', ' Forty', ' Fifty', ' Sixty', ' Seventy', ' Eighty', ' Ninety'];

   var numLength = rev.length;
   var word = new Array();
   var j = 0;
   for (var i = 0; i < numLength; i++) {
      switch (i) {
         case 0:
            if ((rev[i] == 0) || (rev[i + 1] == 1)) {
               word[j] = '';
            } else {
               word[j] = once[rev[i]];
            }
            break;
         case 1:
            aboveTens(i);
            break;
         case 2:
            if (rev[i] == 0) {
            word[j] = '';
```

```
            } else if ((rev[i - 1] == 0) || (rev[i - 2] == 0)) {
                word[j] = once[rev[i]] + " Hundred ";
            } else {
                word[j] = once[rev[i]] + " Hundred and ";
            }
            break;
        default:
            break;
        }
        j++;
    }
    function aboveTens(i) {
        if (rev[i] == 0) {
            word[j] = ';
        } else if (rev[i] == 1) {
            word[j] = twos[rev[i - 1]];
        } else {
            word[j] = tens[rev[i]];
        }
    }
    word.reverse();
    var finalOutput = ';
    for (var i = 0; i < numLength; i++) {
        finalOutput += word[i];
    }
    document.getElementById(outputControl).innerHTML = finalOutput;
}
</script>
</head>
<body>
    <h1>HTML - Convert numbers to words using JavaScript</h1>
    <input id="Text1" type="text" onkeypress="return isNumberKey(event)"
        onkeyup="NumToWord(this.value,'divDisplayWords');"
        maxlength="3"
        style="background-color: #efefef; border: 2px solid #CCCCCC; font-size:
    large" />
    <br /><br />
    <div id="divDisplayWords" style="font-size: 30px; color: Teal; font-family:
    Arial;">
    </div>
</body>
</html>
```
Output:-

HTML - Convert numbers to words using JavaScript

567

Five Hundred and Sixty Seven

Experiment No. 7)

Aim:- : Develop and demonstrate PHP Script for the following problems:

• Write a PHP Script to find out the Sum of the Individual Digits.
• Write a PHP Script to check whether the given number is Palindrome or not
Code:-
• Find out Sum of the individual Digits

```php
<?php
$n = 323;
$sum = 0;

while ($n > 0) {
   $r = $n % 10;
   $sum += $r;
   $n = floor($n / 10); // use floor to avoid decimal
}

echo "Sum of individual digits is: $sum";
?>
```
Output:-
Sum of individual digits is: 8

• **Check whether the given number is Palindrome or not**

```php
<?php
$n = 323;
$t = $n;
$rev = 0;

while ($n > 0) {
   $r = $n % 10;
   $rev = $rev * 10 + $r;
   $n = (int)($n / 10);
}

echo "Reverse digits are: $rev <br>";

if ($t == $rev)
   echo "$rev is a Palindrome";
else
   echo "$rev is not a Palindrome";
?>
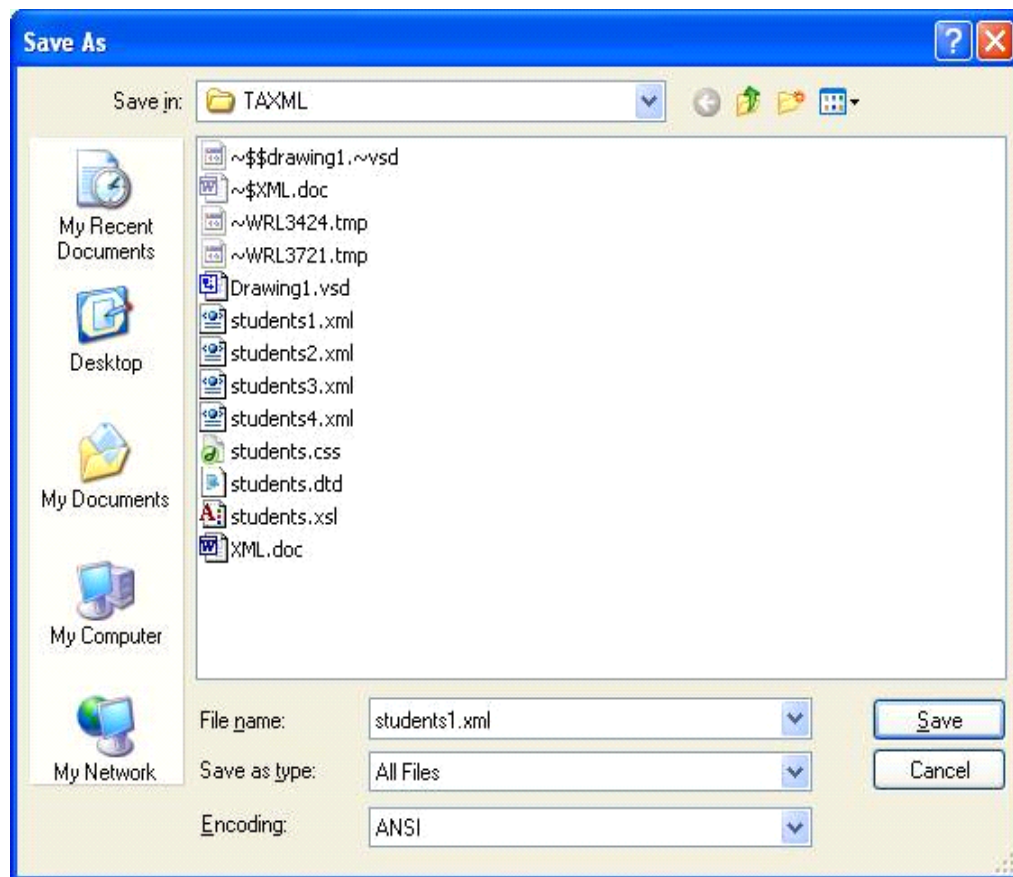```
**Output:-**
Reverse digits are: 323
323 is a Palindrome

## Experiment No. 8)

**Aim:-** : Write a XML program to validate student details(Rno, Name, college & branch) using DTD.

**Code:-**

```xml
<?xml version = "1.0"?>
<!-- student1.xml -->
<students>
  <student>
    <name>
      <firstname>James</firstname>
      <lastname>Smith</lastname>
    </name>
    <address>
      <street>101 South Street</street>
      <city>Halifax</city>
      <email>james@dal.ca</email>
      <phone>4940001</phone>
    </address>
  </student>
  <student>
    <name>
      <firstname>Tom</firstname>
      <lastname>White</lastname>
    </name>
    <address>
      <street>202 Victoria Road</street>
      <city>Dartmouth</city>
      <email>tom@dal.ca</email>
      <phone>4940002</phone>
    </address>
  </student>
</students>
```

Output:-

- **students.dtd**

```
<?xml version = "1.0"?>
<!-- students.dtd - a document type definition for the students.xml -->
<!ELEMENT students (student+)>
<!ELEMENT student (name, address)>
<!ELEMENT name (firstname, lastname)>
<!ELEMENT firstname (#PCDATA)>
<!ELEMENT lastname (#PCDATA)>
<!ELEMENT address (street, city, email, phone)>
<!ELEMENT street (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT email (#PCDATA)>
<!ELEMENT phone (#PCDATA)>
```
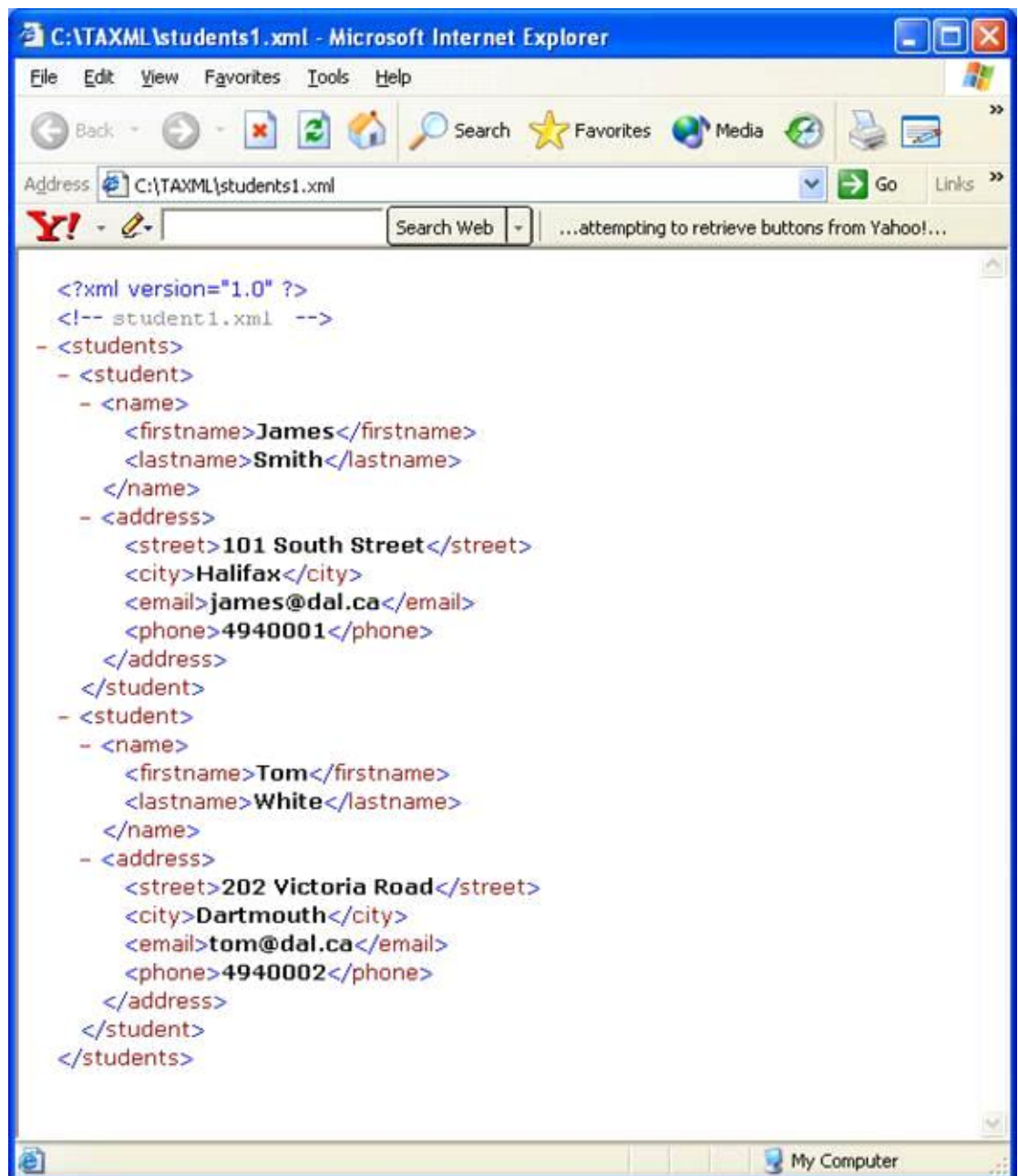
- **students2.xml**

```
<?xml version = "1.0"?>
<!-- students2.xml for the DTD -->
<!DOCTYPE students SYSTEM "students.dtd">
<students>
  <student>
    <name>
      <firstname>James</firstname>
      <lastname>Smith</lastname>
    </name>
    <address>
      <street>101 South Street</street>
      <city>Halifax</city>
```

```
                <email>james@dal.ca</email>
                <phone>4940001</phone>
            </address>
        </student>
        <student>
            <name>
                <firstname>Tom</firstname>
                <lastname>White</lastname>
            </name>
            <address>
                <street>202 Victoria Road</street>
                <city>Dartmouth</city>
                <email>tom@dal.ca</email>
                <phone>4940002</phone>
            </address>
        </student>
    </students>
```
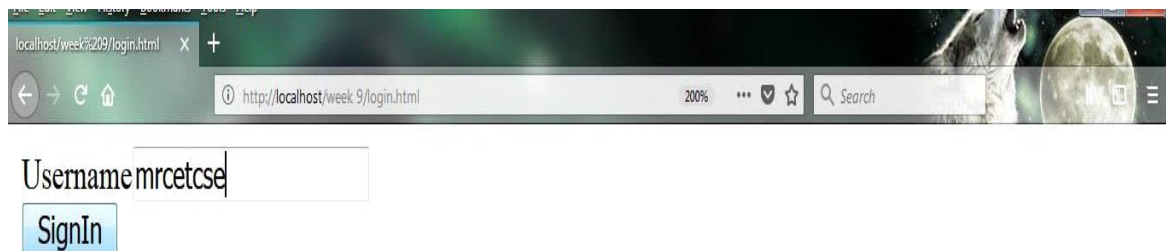Output:-

File   Edit   View   Favorites   Tools   Help

Back   Search   Favorites   Media

Address   C:\TAXML\students1.xml   Go   Links

Y!   Search Web   ...attempting to retrieve buttons from Yahoo!...

```xml
<?xml version="1.0" ?>
<!-- student1.xml -->
- <students>
  - <student>
    - <name>
        <firstname>James</firstname>
        <lastname>Smith</lastname>
      </name>
    - <address>
        <street>101 South Street</street>
        <city>Halifax</city>
        <email>james@dal.ca</email>
        <phone>4940001</phone>
      </address>
    </student>
  - <student>
    - <name>
        <firstname>Tom</firstname>
        <lastname>White</lastname>
      </name>
    - <address>
        <street>202 Victoria Road</street>
        <city>Dartmouth</city>
        <email>tom@dal.ca</email>
        <phone>4940002</phone>
      </address>
    </student>
  </students>
```

My Computer

Experiment No. 9)

Aim:- Implement the following web applications using (a) PHP, (b) Servlets and (c) JSP.

Code:-

login.html

```html
<html>
 <form action="home.php"
method="post"> Username<input
type="text" name="text1"><br>
<input type="submit" value="SignIn" name="submit">
</form>
</html>
```

Output of login.html:


```
Username mrcetcse
SignIn
```

Home.php:

```php
<?php
   session_start();
   date_default_timezone_set("Asia/Calc
   utta");
   $_SESSION['luser'] = $_POST['text1'];
   $_SESSION['start'] = time();
   $tm=$_SESSION['start'];
   print "<p align='right'>Session started at " .
   date("h:i:sa",$tm) . "<br>"; print "<form
   action='logoutpage.php' method='post'>";
   print "<input type='submit'
   value='Logout'></p>"; print
   "</form>";
   print "Hello " . $_SESSION['luser'];
?>
```

Logoutpage.php:

```php
<?php
    session_start();
    date_default_timezone_set("Asia/Cal
    cutta");
    print "<p align='right'>Session started at " . date("h:i:sa",time()) .
    "</p><br>"; print "Thank you " . $_SESSION['luser'];
    $sessiontime = time() - $_SESSION['start'];
```

```php
        print "<br> Your session duration: " . $sessiontime . "
        seconds"; session_destroy();
    ?>
```

Session started at 06:46:49pm

Thank you Naba

Your session duration: 125 seconds

Experiment No. 10)

Aim:- Implement the web applications with Database using (a) PHP, (b) Servlets and (c) JSP**.**

Code:-

db.php
```php
<html>
<body>
<?php
$severname="localhost";
$username="root";
$password="TIGER";
$conn=new
mysqli($severname,$username,$password);
if($conn->connect_error)
{
die("connection failed".$conn->connect_error);
}
echo "Connected successfully <br>";
//Create database
$sql = "CREATE DATABASE reg";
if(mysqli_query($conn,$sql))
echo "Database created
successfully<br>"; else
echo "error";
$servername="localhost";
$dbname="reg";
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check
connecti
on if
(!$conn
)
{
die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully <br>";
// sql to create table
$sql = "CREATE
TABLE Guests ( name
```

```
VARCHAR(30) NOT
NULL, pwd
VARCHAR(30) NOT
NULL)";
if (mysqli_query($conn, $sql))
{
echo "Table MyGuests created successfully<br>";
}
 else {
echo "Error creating table: " . mysqli_error($conn);
}
$sql = "INSERT INTO Guests (name, pwd) VALUES ('cse', '5')";



if (mysqli_query($conn, $sql)) {
echo "New record created successfully";
}
else
{
echo "Error: " . $sql . "<br>" . mysqli_error($conn);
}
mysqli_close($conn);
?>
</body>
</html>
```

Login.html

```
<html>
<head>  <title> Login Page </title> </head>
<body>
<center>   <h1> Login Page </h1>
<form action="loginform.php" method="post">
<table>
<tr> <td> <label> Name: </label> </td>
<td> <input type="text" name="uname" /> </td>
</tr>
<tr> <td> <label> Password: </label> </td>
<td> <input type="password" name="upwd" /> </td>
</tr>
<tr> <td> <input type="submit" value="submit" /> </td>
<td> <input type="reset" value="reset" /> </td>
</tr>
    </table>
   </form>
  </center>
 </body>
</html>
```

loginform.php

```
<html>
<head> <title> Registration page </title> </head>
<body>
   <?php
     $name=$_POST["uname"];
     $pwd=$_POST["upwd"];
     $conn=mysql_connect("localhost","root","TIGER") or die("mysql_error()");
     mysql_select_db("reg") or die("mysql_error()");
     $query=mysql_query("SELECT * from guests where name='$name'");
     while($row=mysql_fetch_array($query))
     {
     $duser=$row['name'];
     $dpwd=$row['pwd'];
     }
     if($pwd==$dpwd &&
     $name==$duser) echo
     "welcome $name branch";
     else
     echo "invalid user";
   ?>
   </body>
</html>
```

Output:-

welcome cse branch