Laboratory Practical Report

of

**WEB TECHNOLOGY**

**(ICT ED 437)**

Submitted To

**TRIBHUVAN UNIVERSITY**

In Partial Fulfillment of the Requirements of the course

**B.Ed. ICTE 3rd Semester**

Submitted By

Sanam Tamang

Symbol No.: 76214020

T.U. Regd. No.: 9-2-0214-0054-2019

Under the guidance of

**Mr. Santosh Dahal**

Faculty Member, BICTE Program

Sukuna Multiple Campus

Submitted for the Final Examination on: 2078/12/29

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(External Examiner)

***// index.hmtl***

<!Doctype html>

<html>

    <head>

        <title>Calculator</title>

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

    </head>

    <body>

       <div class="center">

         <form action="" name="myform">

          <input type="text" name="display" placeholder=" Calculate the things ">

               <div class="buttons">

                    <input type="button" value="7" onclick="calculations(7)">

                    <input type="button" value="8" onclick="calculations(8)">

                    <input type="button" value="9" onclick="calculations(9)">

                    <input type="button" value="x" onclick="calculations('\*')">

                    <br>

                    <input type="button" value="4" onclick="calculations(4)">

                    <input type="button" value="5" onclick="calculations(5)">

                    <input type="button" value="6" onclick="calculations(6)">

                    <input type="button" value="/" onclick="calculations('/')">

                    <br>

                    <input type="button" value="1" onclick="calculations(1)">

                    <input type="button" value="2" onclick="calculations(2)">

                    <input type="button" value="3" onclick="calculations(3)">

                    <input type="button" value="-" onclick="calculations('-')">

                    <br>

                    <input type="button" value="." onclick="calculations('.')">

                    <input type="button" value="0" onclick="calculations(0)">

                    <input type="button" value="+" onclick="calculations('+')">

      <input class="clear" type="button" value="C" onclick="calculations('C')">

                    <br>

       <input class="equal" type="button" value="=" onclick="calculations('=')">

                </div>

             </form>

         </div>

     <script>

        function calculations(data){

                  if(data=='C'){

                      myform.display.value='';

                  }

                  else if(data=='='){

                      myform.display.value=eval(myform.display.value);

                  }

                  else{

                    myform.display.value+=data;

                  }

        }

    </script>

    </body>

</html>

***//style.css***

\*{

    padding: 0%;

    margin: 0%;

    box-sizing: border-box;

   font-family: 'Times New Roman', Times, serif;

}

body{

    background-color:rgba(231, 225, 225, 0.671);

    height: 100vh;

    text-align: center;

    display: flex;

    align-items: center;

    justify-content: center;

}

.center{

   width: 320px;

   background:linear-gradient(rgb(38, 37, 61),rgba(37, 36, 58, 0.774));

   border-radius: 5px;

   box-shadow:10px 10px 20px rgb(83, 78, 78);

}

/\*placeholder laii yeta uta milauna laii\*/

input::placeholder{

    text-align: center;

    color: #aaa;

}

/\*this is the display box

we use to display the result on it

\*/

input[type="text"]{

     border:solid white 2px;

     color:white;

    border-radius: 20px;

    margin-top: 20px;

    width:300px;

    height:60px;

    background: rgba(38, 37, 61, 0.486);

    font-size: 27px;

    text-align: right;

    padding-right:10px;

   overflow-x:visible;

}

.buttons{

   padding:20px;

}

/\*

all the buttons is here

\*/

input[type="button"]{

    background-color: rgba(34, 24, 51, 0.699);

    border: solid 2px white;

    color: white;

    width:55px;

     padding:15px 10px;

    margin:5px;

    border-radius: 20px;

    font-size:18px;

}

.buttons .clear{

    background: #ff1f1f;

    color:white;

    font-weight: 600;

}

.buttons .equal{

    padding:10px;

    font-size: 25px;

    color:#fff;

    width:270px;

    background-color: #ff2122;

    font-weight: 600;

}

# **Explanation of the above code:**

In above code I have written basic program of calculator using HTML and JavaScript along with CSS. Where I have used <link> tag to link with the external CSS under the <head> of HTML and <script> tag for performing the coding of JavaScript.

HTML files name should be filename dot(.)html. HTML file should contain with dot(.)html extension. What HTML basically does that, it makes the skeleton of the webpages. Under the <head> section of HTML there could be many tag like <meta>, <style>, <script> tags etc. But I have used only two tag they are one of <title> and another one is <link>. What basically title does, it shows the title of the webpage in the web browser heading.

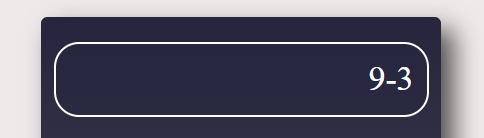


And <link> tag what basically does that It link with external CSS files. Where we have to give external CSS file into the href=”externalFile.css”. And external CSS file name should be filename dot(.) css to perform CSS code. What CSS basically does that it styles webpages in varies ways like coloring, changing fonts, increasing or decreasing width and heights, media queries and positioning elements etc. To do style in the elements we have to name it either class or id. One class name may have multiple elements but one id only has one element. Class is selecting using dot(.) and class and id is selecting using hash (#) and id name. For beautify our webpage, we have used CSS.

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

Here, Under the <body> of section of HTML, we have given the <form> tag, where most of skeleton of our calculator is made with.

For displaying our task, we have made this,



From this code,

 <input type="text" name="display" placeholder=" Calculate the things ">

For showing the buttons the calculator we have written some codes,

 <input type="button" value="7" onclick="calculations(7)">

In above code, type=” button” where it makes the button and value shows the string over the button and last thing what onclick does, after click of the button which you have seen it passes the data through <script> function calculation(7), here it passes the data or value 7 as you can see calculation passing the data 7 from its parameter to script calculation(data) function.

Here is all the remaining part of buttons,

  <input type="button" value="7" onclick="calculations(7)">

                    <input type="button" value="8" onclick="calculations(8)">

                    <input type="button" value="9" onclick="calculations(9)">

                    <input type="button" value="x" onclick="calculations('\*')">

                    <br>

                    <input type="button" value="4" onclick="calculations(4)">

                    <input type="button" value="5" onclick="calculations(5)">

                    <input type="button" value="6" onclick="calculations(6)">

                    <input type="button" value="/" onclick="calculations('/')">

                    <br>

                    <input type="button" value="1" onclick="calculations(1)">

                    <input type="button" value="2" onclick="calculations(2)">

                    <input type="button" value="3" onclick="calculations(3)">

                    <input type="button" value="-" onclick="calculations('-')">

                    <br>

                    <input type="button" value="." onclick="calculations('.')">

                    <input type="button" value="0" onclick="calculations(0)">

                    <input type="button" value="+" onclick="calculations('+')">

                    <input class="clear" type="button" value="C" onclick="calculations('C')">

                    <br>

                    <input class="equal" type="button" value="=" onclick="calculations('=')">

In above code it has four rows, each rows have four children and each child have its own value and work. Here, data are passing through the calculation(data) function and it has parameter name data.

     <script>

        function calculations(data){

                  if(data=='C'){

                      myform.display.value='';

                  }

                  else if(data=='='){

                      myform.display.value=eval(myform.display.value);

                  }

                  else{

                    myform.display.value+=data;

                  }

        }

    </script>

Data are being passed in above calculation function where it does some calculations and shows the data in the display. Here myform is nothing but name of form where we have written <form name=”myform”> and display is <input type=”text” name=”display” placeholder=”calculate the thing”> where it display or show the calculated values or data.

if(data=='C'){

                      myform.display.value='';

                  }

data==’C’ means if data is true or match with ‘C’ it will execute the myform.display.value=’ ’;. What this code does that it wipes of the entire displaying value or calculated value of the display.

                  else if(data=='='){

                      myform.display.value=eval(myform.display.value);

                  }

What this code does that, if data==’C’ is not match or true. Condition comes in this place if data== ‘ =’ it calculates the data. Where eval() is a build in function in JavaScript.

If none of above condition is executed,

  else{

                    myform.display.value+=data;

                  }

This condition is executed; it shows the value which user is clicked.

# **The final Output will be.**

