

## CA-C25L: WEB PROGRAMMING LAB

### V BCA – NEP Scheme

1. Create a form with the elements of Textboxes, Radio buttons, Checkboxes, and so on. Write JavaScript code to validate the format in email, and mobile number in 10 characters, If a textbox has been left empty, popup an alert indicating when email, mobile number and textbox has been left empty.
2. Develop an HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluate the expression and Display the result.
3. Create a page with dynamic effects. Write the code to include layers and basic animation.
4. Write a JavaScript code to find the sum of N natural Numbers. (Use userdefined function)
5. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.
6. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.
7. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.
8. Write a program in PHP to change background color based on day of the week using if else if statements and using arrays .
9. Write a simple program in PHP for i) generating Prime number ii) generate Fibonacci series.
10. Write a PHP program to remove duplicates from a sorted list
11. Write a PHP Script to print the following pattern on the Screen:

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12. Write a simple program in PHP for Searching of data by different criteria
13. Write a function in PHP to generate captcha code
14. Write a Program to store and read image from Database.
15. Write a program in PHP to read and write file using form control.
16. Write a program in PHP to add, update and delete using student database.
17. Write a program in PHP to Validate Input
18. Write a program in PHP for setting and retrieving a cookie
19. Write a PHP program to Create a simple webpage of a college.
20. Write a program in PHP for exception handling for i) divide by zero ii) checking date format.

1. Create a form with the elements of Textboxes, Radio buttons, Checkboxes, and so on. Write JavaScript code to validate the format in email, and mobile number in 10 characters, If a textbox has been left empty, popup an alert indicating when email, mobile number and textbox has been left empty.

```

<html>
<head>
<title>Registration Form</title>
<script type = "text/javascript">
    function validate()
    {
        if(document.myForm.Name.value == "")
        {
            alert("Please Provide Your Name");
            document.myForm.Name.focus();
            return false;
        }

        var gen = document.getElementsByName('gender');
        var genValue = false;
        for(var i=0; i<gen.length; i++)
        {
            if(gen[i].checked == true){
                genValue=true;
            }
        }
        if(!genValue){
            alert("Gender not selected");
            return false;
        }

        if(document.myForm.Email.value == "")
        {
            alert("Please Provide Your Email ID");
            document.myForm.Email.focus();
            return false;
        }

        if ((document.myForm.phno.value == "")||(document.myForm.phno.value.length != 10))
        {
            alert("Please Provide a valid phone number format - 10digits");
            document.myForm.phno.focus();
            return false;
        }

        if ((document.myForm.Zip.value == "")||(document.myForm.Zip.value.length != 6))
        {
            alert("Please Provide a valid zip code format");
        }
    }
</script>

```

```

        document.myForm.Zip.focus();
        return false;
    }
    if(document.myForm.Country.value == "-1")
    {
        alert("Please Provide Your Country Name");
        return false;
    }
    return true;
}

function validateEmail()
{
    var emailID = document.myForm.Email.value;
    atpos = emailID.indexOf("@");
    dotpos = emailID.lastIndexOf(".");
    if(atpos < 1 || (dotpos - atpos < 2))
    {
        alert("Please Enter Correct Email ID");
        document.myForm.Email.focus();
        return false;
    }
    return true;
}
</script>
</head>
<body>
<form name = "myForm" onsubmit = "return(validate());">
<table cellspacing = "2" cellpadding = "2" border = "1">
    <tr>
        <td>Name</td>
        <td><input type = "text" name = "Name" /></td>
    </tr>
    <tr>
        <td>Gender</td>
        <td><input type = "radio" name = "gender"/>Male
        <input type = "radio" name = "gender"/>Female
        <input type = "radio" name = "gender"/>Others</td>
    </tr>
    <tr>
        <td>Email ID</td>
        <td><input type = "text" name = "Email" onchange = "validateEmail();"/></td>
    </tr>
</tr>

```

```

<td>Phone Number</td>
<td><input type = "text" name = "phno" /></td>
</tr>

<tr>
    <td>Zip Code</td>
    <td><input type = "text" name = "Zip" /></td>
</tr>
<tr>
    <td>Country</td>
    <td><select name = "Country" >
        <option value = "-1" selected> [Choose Yours]</option>
        <option value = "1" >INDIA</option>
        <option value = "2" >USA</option>
        <option value = "3" >Srilanka</option>
    </select>
    </td>
</tr>
<tr>
    <td colspan = "2" align = "center"><input type = "submit" value = "Submit" /></td>
</tr>
</table>
</form>
</body>
</html>

```

- 2. Develop an HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluate the expression and Display the result.**

```

<html>
<head>
<title>Mathematical Expression</title>
<script type = "text/javascript">
    function math_exp()
    {
        var x = document.form1.exptext.value;
        var result = eval(x);
        document.form1.resulttext.value = result;
    }
</script>
</head>
<body>
    <form name = "form1">

```

```

<table>
  <tr>
    <td>Expression</td>
    <td><input type = "text" name = "exptext" /></td>
  </tr>
  <tr>
    <td>Result</td>
    <td><input type = "text" name = "resulttext" /></td>
  </tr>
  <tr>
    <td><input type = "button" value = "calculate" onclick = "math_exp()" /></td>
  </tr>
</table>
</form>
</body>
</html>

```

3. Create a page with dynamic effects. Write the code to include layers and basic animation.

```

<html>
<head>
<style>
.moveable{
  position: absolute;
}
</style>
<script type = "text/javascript">
var x = 5;
var y = 5;
var dest_x = 300;
var dest_y = 300;
var interval = 10;
function moveImage()
{
  if(x < dest_x)
    x = x + interval;
  if(y < dest_y)
    y = y + interval;

  document.getElementById("ufo").style.top = y + "px";
  document.getElementById("ufo").style.left = x + "px";
  if((x + interval < dest_x) && (y + interval < dest_y))
  {

```

```

        window.setTimeout("moveImage()", 100);
    }
}
</script>
</head>
<body onload = "moveImage()">
    <div id = "ufo" class = "moveable">
        <img src = "/Users/apple/Desktop/msrcasc.png" alt = "please link to a valid image" />
    </div>
</body>
</html>

```

**4. Write a JavaScript code to find the sum of N natural Numbers. (Use userdefined function)**

```

<html>
<head>
<script type = "text/javascript">
    var num = window.prompt("Enter the number:","");
    var n = parseInt(num);
    result = sumnaturalno(n);
    window.alert("The sum of " + n + " natural number is " + result);
    function sumnaturalno(n)
    {
        var i;
        var sum = 0;
        for(i = 1;i <= n; i++){
            sum = sum + i;
        }
        return (sum);
    }
</script>
</head>
</html>

```

**5. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.**

```

<html>
<head>
<script type = "text/javascript">
    var d = new Date();
    var weekday = new Array("Sunday", "Monday", "Tuesday", "Wednesday", "Thursday",
    "Friday", "Saturday");

```

```

var monthname = new Array("Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct",
"Nov", "Dec");
document.write(weekday[d.getDay()] + " ");
document.write(d.getDate() + ". ");
document.write(monthname[d.getMonth()] + " ");
document.write(d.getFullYear());;
</script>
</head>
<body>
</body>
</html>

```

**6. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.**

```

<html>
<head>
<title>Registration Form</title>
<script type = "text/javascript">
function calc()
{
    var m1,m2,m3,avg = 0,total = 0, result = "",grade = "";
    m1 = parseInt(document.form1.wp.value);
    m2 = parseInt(document.form1.da.value);
    m3 = parseInt(document.form1.ai.value);
    total = m1+m2+m3;
    avg = total/3;
    if( m1 < 21 || m2 < 21 || m3 < 21)
    {
        result = "fail";
        grade = "D";
    }
    else if(avg >= 75)
    {
        result = "Distinction";
        grade = "A+",
    }
    else if(avg >= 60 && avg < 75)
    {
        result = "First class";
        grade = "A";
    }
    else if(avg >= 50 && avg < 60)

```

```

    {
        result = "Second class";
        grade = "B";
    }
    else if(avg >=35 && avg < 50)
    {
        result = "Pass class";
        grade = "C";
    }
    else if (avg < 35)
    {
        result = "Fail";
        Grade = "D";
    }
    document.form1.result.value = result;
    document.form1.grade.value = grade;
    document.form1.total.value = total;
    document.form1.average.value = avg;
}

</script>
</head>
<body>
<form name = "form1">
    <table border = "1">
        <tr>
            <td> Student Name</td>
            <td><input type = "text" /></td>
        </tr>
        <tr>
            <td> Reg. No</td>
            <td><input type = "text" /></td>
        </tr>
        <tr>
            <td colspan = "2" align = "center">Subject Marks</td>
        </tr>
        <tr>
            <td>Web Programming</td>
            <td><input type = "text" name = "wp" /></td>
        </tr>
        <tr>
            <td>Data Analytics</td>
            <td><input type = "text" name = "da" /></td>
        </tr>

```

```

<tr>
    <td>Artificial Intelligence</td>
    <td><input type = "text" name = "ai" /></td>
</tr>
<tr>
    <td colspan = "2" align = "center"><input type = "button" onclick = "calc()" value =
"calculate" /></td>
</tr>
<tr>
    <td>Total</td>
    <td><input type = "text" name = "total"/></td>
</tr>
<tr>
    <td>Average</td>
    <td><input type = "text" name = "average" /></td>
</tr>
<tr>
    <td>Result</td>
    <td><input type = "text" name = "result" /></td>
</tr>
<tr>
    <td>Grade</td>
    <td><input type = "text" name = "grade"/></td>
</tr>
</table>
</form>
</body>
</html>

```

7. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.

```

<html>
<head>
<title>Registration Form</title>
<script type = "text/javascript">
    function calc()
    {
        var bp,DA,HRA,GP,PF,Tax,Deduction,NetPay,name,id,desg;
        name = document.form1.firstname.value;
        id = document.form1.userid.value;
        desg = document.form1.designation.value;
        bp = parseInt(document.form1.bp.value);
        DA = bp * 0.5;

```

```

HRA = bp * 0.5;
GP = bp + DA + HRA;
PF = GP * 0.02;
Tax = GP * 0.01;
Deduction = Tax + PF;
NetPay = GP - Deduction;
document.form1.da.value = DA;
document.form1.hra.value = HRA;
document.form1.gp.value = GP;
document.form1.pf.value = PF;
document.form1.tax.value = Tax;
document.form1.deduction.value = Deduction;
document.form1.netpay.value = NetPay
}
</script>
</head>
<body >
<form name = "form1">
<table border = "1">
<tr>
<td>Name</td>
<td><input type = "text" name = "firstname" /></td>
</tr>
<tr>
<td>User ID</td>
<td><input type = "text" name = "userid" /></td>
</tr>
<tr>
<td>Designation</td>
<td><input type = "text" name = "designation" /></td>
</tr>
<tr>
<td>Basic Pay</td>
<td><input type = "text" name = "bp"></td>
</tr>
<tr>
<td colspan = "2" align = "center">
<input type = "button" name = "calculate" value = "Click Here To Calculate" onclick
="calc()"/></td>
</tr>
<tr>
<td>Dearness Allowance </td>
<td><input type = "text" name = "da"/></td>

```

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</tr>
<tr>
    <td>House Rent Allowance </td>
    <td><input type = "text" name = "hra"></td>
</tr>
<tr>
    <td>Gross Pay</td>
    <td><input type = "text" name = "gp"></td>
</tr>
<tr>
    <td>Provident Fund</td>
    <td><input type = "text" name = "pf" /></td>
</tr>
<tr>
    <td>Tax</td>
    <td><input type = "text" name = "tax" /></td>
</tr>
<tr>
    <td>Deduction</td>
    <td><input type = "text" name = "deduction" /></td>
</tr>
<tr>
    <td>NetPay</td>
    <td><input type = "text" name = "netpay" /></td>
</tr>
</table>
</form>
</body>
</html>

```

**Ex1:** Write a JavaScript code block, which checks the contents entered in a form's Text element. If the text entered is in the lower case, convert to upper case. Make use of function to Uppercase () .

```

<html>
<head>
<script type = "text/javascript">
    function upper()
    {
        var upper = document.form1.string.value.toUpperCase();
        document.form1.string.value = upper;
    }
</script>

```

```

</head>
<body>
<form name = "form1">
<table>
<tr>
<td>Enter String</td>
<td><input type = "text" name = "string" /></td>
</tr>
<tr>
<td><input type = "button" value = "upper" onclick = "upper()"></td>
</tr>
</table>
</form>
</body>
</html>

```

**Ex2: Create a form consists of a two Multiple choice lists and one single choice list**

```

<html>
<head>
<script type = "text/javascript">
function findcost()
{
    var major = document.getElementById("major");
    var Starters = document.getElementById("starters");
    var soft = document.getElementById("soft");
    var s = "Item \t \t \t Price \n-----\n";
    var totalcost = 0;

    for( var i = 0; i < major.options.length; i++)
    {
        var option = major.options[i];
        if(option.selected == true)
        {
            var price = parseInt(option.value);
            totalcost = totalcost + price;
            s = s+ option.text + "\t \t" + price + "\n";
        }
    }
    for( var i = 0; i < starters.options.length; i++)
    {
        var option = starters.options[i];
        if(option.selected == true)

```

```

    }
    var price = parseInt(option.value);
    totalcost = totalcost + price;
    s = s + option.text + "\t \t" + price + "\n";
}
}

var softdrinkindex = soft.selectedIndex;
if(softdrinkindex != null)
{
    var selectedsoftdrink = soft.options[soft.selectedIndex].text;
    var price = parseInt(soft.options[soft.selectedIndex].value);
    totalcost = totalcost + price;
    s = s + selectedsoftdrink + "\t \t" + price + "\n";
}
s = s + "\n\n Total Cost \t \t" + totalcost;
document.getElementById("ordereditems").value = s;
}
</script>
</head>
<body>
<form name = "menuForm">
<table border = "1" >
<tr>
<td colspan = "2" align = "center">
<h2>Restaurant Menu Details</h2>
</td>
</tr>
<tr>
<td> Major Dishes:</td>
<td>
<select id = "major" size = "3" multiple = "multiple">
<option value = "100"> Vegetable Pulav</option>
<option value = "150"> Hyderabadi Biriyani</option>
<option value = "50"> Roti with Curry </option>
</select>
</td>
</tr>
<tr>
<td> Starters </td>
<td><select id = "starters" size = "3" multiple = "multiple">
<option value = "80"> Gobi Manchurian </option>
<option value = "40"> Veg Clear Soup </option>
<option value = "30"> Masala Papad </option>
</td>

```

```

</tr>
<tr>
    <td>Soft Drinks</td>
    <td>
        <select id = "soft" size = "3" multiple = "multiple">
            <option value = "20"> Pepsi</option>
            <option value = "25"> Coke </option>
            <option value = "30"> Lime Soda </option>
        </select>
    </td>
</tr>
<tr>
    <td colspan = "2" align = "center">
        <textarea id = "ordereditems" rows = "10" cols = "40">
        </textarea>
    </td>
</tr>
<tr>
    <td>
        <input type = "button" value = "Find total Cost" onclick = "findcost()" />
    </td>
    <td>
        <input type = "reset" value = "Clear" />
    </td>
</tr>
</table>
</form>
</body>
</html>

```

**Ex3: Write a JavaScript code to find factorial of N. (Use recursive function)**

```

<html>
    <body>
        <script type = "text/javascript">
            var n = parseInt(window.prompt("Enter the Number:"));
            var result = fact(n);
            window.alert("Factorial of the given number " + result);
            function fact(n)
            {
                if(n == 0)
                    return 1;

```

```

        else
            return (n*fact(n-1));
    }
</script>
</body>
</html>

```

**Ex4:** Create a form having number of elements (Textboxes, Radio buttons, Checkboxes, and so on). Write JavaScript code to count the number of elements in a form.

```

<html>
<head>
<title>COUNT OF NUMBERS OF ELEMENTS IN A FORM </title>
<script type ="text/javascript">
function countElements(){
alert("The numbers of elements in form1 are:"+document.form1.length);
}
</script>
</head>

<body>
<form name="form1">

<pre>First name:<input type="text" name="fname" value=" "><br/>
Last name:<input type="text" name="lname" value=" "><br/>

<b>Gender:</br>
Male<INPUT TYPE="radio" NAME="rad" VALUE="radio_button1"/>
Female<INPUT TYPE="radio" NAME="rad" VALUE="radio_button2"/>

<b>Education:</b>

Undergraduate<INPUT TYPE="checkbox" NAME="check1">
Graduate<INPUT TYPE="checkbox" NAME="check2">
Post Graduate<INPUT TYPE="checkbox" NAME="check3" value="check3">
</pre>

<br><br>
<input type="submit" value="submit" onclick="countElements()"/>
</form>
</body>
</html>

```

**Ex5: Create a web page using two image files, which switch between one another as the mouse pointer moves over the images. Use the on Mouse Over and on Mouse Out**

```
<html>
<head>
<script type = "text/javascript">
    function mouseover()
    {
        document.getElementById("img").src = "image.jpg";
    }
    function mouseout()
    {
        document.getElementById("img").src = "image1.jpg";
    }
</script>
</head>
<body>
<img src = "image1.jpg" id = "img" onmouseover="mouseover()" onmouseout="mouseout()"/>
</body>
</html>
```