Web programming lab programs part A

1. 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.

<head>

<title> Count form elements </title>

<script type="text/javascript">

function countFormElements()

{

alert("the number of elements are :"+document.myForm.length);

}

</script>

</head>

<body bgcolor=cyan>

<h1 align=center>Counting Form Elements </h1>

<hr>

<form name="myForm" align=left>

1. Name : &nbsp&nbsp&nbsp&nbsp<input type=text/> <br><br>

2. Password: <input type="password"/><br><br>

3. Address:&nbsp&nbsp<textarea id="emailbody" cols=50 rows=10></textarea> <br><br>

4. Sex:<input type=radio name=gender/>Male

<input type=radio name=gender/>Female<br><br>

5. Newsletter <input type=checkbox checked="checked"/><br><br>

<input type=button value="Send Message" onclick="countFormElements()" />

</form>

</body>

</html>

2. Create a HTML form that has number of Textboxes. When the form runs in the

Browser fill the textboxes with data. Write JavaScript code that verifies that all

textboxes has been filled. If a textboxes has been left empty, popup an alert

indicating which textbox has been left empty.

<!-- Lab2 - Validating Text Boxes -->

<html>

<head>

<title> Validate Text Boxes </title>

<script type="text/javascript">

function validate()

{

var myArray=new Array();

for(var i=0;i<document.myForm.length;i++)

{

if(document.myForm.elements[i].value.length==0)

{

myArray.push(document.myForm.elements[i].name);

}

}

if(myArray.length!=0)

{

alert("the following text boxesa are empty:\n"+myArray);

}

}

</script>

</head>

<body bgcolor=cyan>

<h1 align=center> Text Box Validation </h1>

<hr>

<form name="myForm" onSubmit="validate()">

Name : <input type=text name="name" /> <br> <br>

Class : &nbsp<input type=text name="class"/> <br> <br>

Age :&nbsp&nbsp&nbsp <input type=text name="Age"/><br> <br>

<input type="submit" value="Send Message"/>

</form>

</body>

</html>

3. Develop a HTML Form, which accepts any Mathematical expression. Write

JavaScript code to Evaluates the expression and Displays the result.

Html Code:

<!-- Lab3 - Evaluating Arithmetic Expression -->

<html>

<title> Arithmetic expression Evaluation </title>

<script type="text/javascript">

function evaluate()

{

var enteredExpr=document.getElementById("expr").value;

document.getElementById("result").value=eval(enteredExpr);

}

</script>

</head>

<body bgcolor=cyan>

<h1 align=center> Evaluating Arithmetic Expression</h1>

<hr>

<form name="myform">

<b>

&nbsp&nbsp Enter any valid Expression : <input type=text id=expr><br><br>

&nbsp &nbsp <input type=button value="Evaluate" onclick="evaluate()"/><br> <br>

&nbsp &nbsp Result of the expression : <input type=text id=result><br>

</b>

</form>

</body>

</html>

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

animation.

Html Code:

<html>

<head>

<title> Basic Animation </title>

<style>

#layer1 {position:absolute; top:50px;left:50px;}

#layer2 {position:absolute;top:50px; left:150px;}

#layer3 {position:absolute; top:50px;left:250px;}

</style>

<script type="text/javascript">

function moveImage(layer)

{

var top=window.prompt("Enter Top value");

var left=window.prompt("Enter Left Value");

document.getElementById(layer).style.top=top+'px';

document.getElementById(layer).style.left=left+'px';

}

</script>

<head>

<body bgcolor=cyan>

<div id="layer1"><img src="ball.jpg" onclick="moveImage('layer1')"

alt="MyImage"></div>

<div id="layer2"><img src="ball.jpg" onclick="moveImage('layer2')"

alt="MyImage"></div>

<div id="layer3"><img src="ball.jpg" onclick="moveImage('layer3')"

alt="MyImage"></div>

</body>

</html>

5. Write a JavaScript code to find the sum of N natural Numbers. (Use user-defined

function)

Html Code:

<!-- Lab 5 - Javascript to find the sum of N Natural numbers -->

<html>

<head>

<title> Sum of Natural Numbers </title>

<script type="text/javascript">

function sum()

{

var num=window.prompt("Enter the value of N");

var n =parseInt(num);

var sum=(n\*(n+1))/2;

window.alert("Sum of First" + n + "Natural numbers is:"+sum);

}

</script>

</head>

<body bgcolor=cyan>

<h1 align=center> Finding Sum of N Natural Numbers </h1>

<hr>

<form align=center>

<input type="button" value="Click Here " onclick="sum()"/>

</form>

</body>

</html>

6. Write a JavaScript code block using arrays and generate the current date in words, this

should include the day, month and year.

Html Code:

<!-- Lab 7 : Java Script code to display date in words -->

<html>

<head>

<title>Display Date </title>

<script type="text/javascript">

function display()

{

var dateObj=new Date();

var currDate=dateObj.getDate();

var month=dateObj.getMonth();

var currYear=dateObj.getFullYear();

var year="Two Thousand and Fourteen";

var days=["First","Second","Third","Fourth","Fifth","Sixth","Seventh","Eigth","Ninth",

"Tenth","Eleventh","Twelfth","Thirteenth","Fourteenth","fifteenth","Sixteenth",

"Seventeenth","Eighteenth","Nineteenth","Twentyeth","Twenty First","Twenty Second",

"Twenty Third","Twenty Fourth","Twenty Fifth","Twenty Sixth","Twenty Seventh",

"Twenty Nine","Thirtyeth", "Thirty First"];

var months=["January","Febraury", "March", "April", “May”, “June”, “july”, “August”,

"September","October","November","December"];

if(currYear==2014)

alert("Today date is :: "+days[currDate-1]+" "+months[month-1]+" "+year);

else

alert("Today date is :: "+days[currDate-1]+" "+months[month-1]+" "+currYear);

}

</script>

</head>

<body bgcolor=cyan>

<form>

<input type=button value="Click Here" onClick="display()"/>

</form>

</body>

</html>

7. Create a form for Student information. Write JavaScript code to find Total, Average,

Result and Grade

Html Code:

<html>

<head>

<title> Student Marks Report </title>

<script type="text/javascript">

function showResult()

{

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

var cls=document.getElementById("class").value;

var marks1=parseInt(document.getElementById("Sub1").value);

var marks2=parseInt(document.getElementById("Sub2").value);

var marks3=parseInt(document.getElementById("Sub3").value);

var total=marks1+marks2+marks3;

var avg=total/3;

var grade,result;

if(avg>=60)

{

grade="A";

result="First Class";

}

else if(avg<60 && avg>=50)

{

grade="B";

result="Second Class";

}

else if(avg<50 && avg>=40)

{

grade="C";

result="Third Class";

}

else

{

grade="D";

result="Fail";

}

document.write("<body bgcolor=pink>");

document.write("<h2> Student Marks Report </h2>");

document.write("<hr>");

document.write("<b> Name :"+name+"</b> <br><br>");

document.write("<b> Class :"+cls+"</b> <br><br>");

document.write("<b> Total Marks :"+total+"</b> <br><br>");

document.write("<b> Average :"+avg+"</b> <br><br>");

document.write("<b> Grade :"+grade+"</b> <br><br>");

document.write("<b> Result :"+result+"</b> <br><br>");

document.write("</body>");

}

</script>

</head>

<body bgcolor=cyan>

<form>

<table border="5">

<tr> <th> Student Data Form </th> </tr>

<tr>

<td> Student Name </td>

<td><input type=text id=name></td>

</tr>

<tr>

<td> Class </td>

<td><input type=text id=class></td>

</tr>

<tr>

<td> Subject1 Marks </td>

<td><input type=text id=sub1></td>

</tr>

<tr>

<td> Subject2 Marks </td>

<td><input type=text id=sub2></td>

</tr>

<tr>

<td> Subject3 Marks </td>

<td><input type=text id=sub3></td>

</tr>

</table> <br> <br>

<input type=button value="ShowResult" onclick="showResult()">

</form>

</body>

</html>

8. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF,

TAX, Gross pay, Deduction and Net pay.

Html Code:

<!-- Lab 8 : Employee Salary Report -->

<html>

<head>

<title> Employee Salary Report </title>

<script type="text/javascript">

function showSalary()

{

var name=document.getElementById("empname").value;

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

var basic = parseInt(document.getElementById("basic").value);

// hra is 40% of basic

var hra=basic\*0.4;

// da is 60% of basic

var da=basic\*0.6

gross=basic+hra+da;

// pf is 13% of gross

var pf=gross\*0.13;

// tax is 20%of gross

var tax=0.2\*gross;

var deductions=pf+tax;

var netsalary=gross-deductions;

document.write("<body bgcolor=pink>");

document.writeln("<table border='5'>");

document.writeln("<tr><th colspan=2> Employee Salary Report </th> </tr>");

document.writeln("<tr><td> Employee Name:</td> <td>"+name+"</td></tr>");

document.writeln("<tr><td> Emp No : </td> <td>"+empno+"</td></tr>");

document.writeln("<tr><td> Basic Salary :</td> <td>"+basic+"</td></tr>");

document.writeln("<tr><td> HRA (40 % of basic) </td> <td>"+hra+"</td></tr>");

document.writeln("<tr><td> DA (60 % of basic</td> <td>"+da+"</td></tr>");

document.writeln("<tr><td> Gross salary : </td> <td>"+gross+"</td></tr>");

document.writeln("<tr><td> PF ( 13% of the basic )</td> <td>"+pf+"</td></tr>");

document.writeln("<tr><td> Tax (20% of the gross) : </td> <td>"+tax+"</td></tr>");

document.writeln("<tr><td>Deductions (PF + Tax) </td>

<td>"+deductions+"</td></tr>");

document.writeln("<tr><td>Net Salary (Gross - Deductions) : </td>

<td>"+netsalary+"</td></tr>");

document.writeln("</table>");

document.write("</body>");

}

</script>

<body bgcolor="cyan")

<form>

<table border="5">

<tr> <th colspan=2> Employee Salary Form </th></tr>

<tr>

<td> Employee Name :</td>

<td> <input type="text" id="empname"/></td>

</tr>

<tr>

<td> Employee Number </td>

<td> <Input Type ="text" id="empno"/> </td>

</tr>

<tr>

<td> Basic Pay </td>

<td> <input type=text id=basic /></td>

</tr>

</table>

<br>

<input type=button value="Show Salary" onclick="showSalary()">

</form>

</html>

9. Create a form consists of a two Multiple choice lists and one single choice list,

¬ The first multiple choice list, displays the Major dishes available.

¬ The second multiple choice list, displays the Starters available.

¬ The single choice list, displays the Soft drinks available.

The selected items from all the lists should be captured and displayed in a Text Area along

with their respective costs. On clicking the ‘Total Cost’ button, the total cost of all the

selected items is calculated and displayed at the end in the Text Area. A ‘Clear’ button is

provided to clear the Text Area.

Html Code:

<html>

<head>

<title> MacDonalds Restaurant </title>

<script text="text/javascript">

function findCost()

{

var major=document.getElementById("major");

var starters = document.getElementById("starters");

var soft = document.getElementById("soft");

var selectedItems="Item\t\t\t Price \n..................\n";

var totcost=0;

for(var i=0;i<major.options.length; i++)

{

var option = major.options[i];

if(option.selected==true)

{

var price = parseInt(option.value);

totcost=totcost + price;

selectedItems=selectedItems+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);

totcost=totcost + price;

selectedItems=selectedItems+option.text+"\t\t"+price+"\n";

}

}

var softdrinkIndex=soft.selectedIndex;

if(softdrinkIndex!=-1)

{

var selectedSoftdrink=soft.options[soft.selectedIndex].text;

var price = parseInt(soft.options[soft.selectedIndex].value);

totcost=totcost+price;

selectedItems=selectedItems+selectedSoftdrink+"\t\t\t"+price+"\n.....................\

n";

}

selectedItems=selectedItems+"Total cost \t\t" + totcost+"\n...................\n";

document.getElementById("ordereditems").value=selectedItems;

}

</script>

</head>

<body bgcolor=cyan text=blue>

<h1 align=center> Mc Donald's Restaurant </h1>

<hr>

<form name="Menu Form">

<table border=10 align=center>

<tr> <th colspan=2 align=center>

<h2> Items Menu</h2> </th>

</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>

</td>

</tr>

<tr>

<td> Starters </td>

<td> <select id="starters" size=3 multiple="multiple">

<option value=80> Gobi Manchurian </option>

<option value=40> Veg Soup </option>

<option value=30> Masala Papad </option>

</td>

</tr>

<tr>

<td> Soft Drinks </td>

<td> <select id="soft" size=1>

<option value=20> Pepsi </option>

<option value=30> Coke </option>

<option value=10>LimeSoda</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>

</html>

10. Create a web page using two image files, which switch between one another as the

mouse pointer moves over the images. Use the onMouseOver and onMouseOut event

handlers.

Html Code:

<!-- Lab 12 Image files , Switch between one another as the mouse pointer moves over the

images -->

<html>

<head>

<title> Mouse Over and Mouse Out </title>

<style type="text/css">

#image1{position:absolute; top:50px, left:50px , border:thin, visibility:visible;}

#image2{position:absolute; top:50px, left:50px , border:thin, visibility:hidden;}

</style>

<script type="text/javascript">

function changeImage()

{

var imageOne=document.getElementById("image1").style;

var imageTwo=document.getElementById("image2").style;

if(imageOne.visibility=="visible")

{

imageOne.visibility="hidden";

imageTwo.visibility="visible";

}

else

{

imageOne.visibility="visible";

imageTwo.visibility="hidden";

}

}

</script>

</head>

<body bgcolor="cyan" text=blue>

<h1 align = center> Mouse Events </h1>

<hr>

<form >

<img src="zoozoo1.jpg" id="image1" onMouseOver="changeImage()"

onMouseOut="changeImage()"></img>

<img src="zoozoo2.jpg" id="image2" onMouseOver="changeImage()"

onMouseOut="changeImage()"></img>

</form>

</body>

</html>