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

<html>

<head>

<title>counting from elements</title>

<script type="text/javascript">

function countform() {

alert("The number of form elemenst are: " + document.myForm.length);

}

</script>

</head>

<body>

<form name="myForm">

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

Password: <input type="password"><br><br>

Address: <textarea id="email" cols="30" rows="10"></textarea><br><br>

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

Gender: <input type="radio" name="gender">FeMale<br><br>

NewsLetter: <input type="checkbox" checked="checked"><br><br>

<button onclick="countform()">Send Message</button>

</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.

<html>

<head>

<title>Validate textbox</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 TextBoxes are empty:\n" + myArray);

}

}

</script>

</head>

<body>

<form name="myForm" onsubmit="Validate()">

Name: <input type="text" name="name"><br><br> Class: <input type="text" name="class"><br><br> Age: <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>

<head>

<title>Expression Evalution</title>

<script type="text/javascript">

function Evalution() {

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

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

}

</script>

</head>

<body>

<form name="myForm">

Enter any valid Expression: <input type="text" id="expr"><br> result: <input type="text" id="result"><br>

<input type="button" value="calculate" onclick="Evalution()">

</form>

</body>

</html>

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

animation.

<html>

<head>

<title>Animation</title>

<style>

#layer1 {

position: absolute;

top: 50px;

left: 50px;

}

#layer2 {

position: absolute;

top: 50px;

left: 250px;

}

#layer3 {

position: absolute;

top: 50px;

left: 450px;

}

</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>

<div id="layer1"><img src="img.jpg" onclick=" moveImage(layer1)" alt="myImage"></div>

<div id="layer2"><img src="img.jpg" onclick=" moveImage(layer2)" alt="myImage"></div>

<div id="layer3"><img src="img.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>

<head>

<title>Sum of natural numbers</title>

<script type="text/javascript">

function sum() {

var value = window.prompt("enter the value of n");

var n = parseInt(value);

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

window.alert("sum of the number is" + sum);

}

</script>

</head>

<body>

<form>

<input type="button" value="Find the sum of n natural numbers" 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>

<head>

<title>Date display</title>

<script type="text/javascript">

var days = ["First", "second", "third", "fourth", "fifth", "sixth", "seventh", "eigth", "ninth", "tenth", "eleventh", "twelth", "thirteenth", "fourteeen", "fifteen", "sixteen", "seventeen", "eighteen", "nineteen", "twenty", "twentyone", "twentytwo", "twentythree", "twentyfoue", "twentyfive", "twentysix", "twentyseven", "twentyeight", "twentynine", "thirty"];

var months = ["january", "febr", "mar", "apr", "may", "june", "july", "aug", "sep", "oct", "nov", "dec"];

var year = "two thousand twenty one";

var dateObj = new Date();

var currentDate = dateObj.getDate();

var currentMonth = dateObj.getMonth();

var currentYear = dateObj.getFullYear();

if (currentYear == 2021)

alert("today's date is:" + days[currentDate - 1] + " " + months[currentMonth] + " " + year);

else

alert("today's date is:" + days[currentDate - 1] + " " + months[currentMonth] + " " + currentYear);

</script>

</head>

</html>

7. Create a form for student information. Write javascript code to find Total, Average, Results and Grade

<html>

<head>

<title>Student Data</title>

</head>

<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 = "Thirdclass";

} else {

grade = "D";

result = "FAIL";

}

document.write("<h2>Results</h2>");

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

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

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

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

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

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

}

</script>

<body>

<form>

<table border="5">

<tr>

<th>Student Details</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>Subject 1 Marks:</td>

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

</tr>

<tr>

<td>Subject 2 Marks:</td>

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

</tr>

<tr>

<td>Subject 3 Marks:</td>

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

</tr>

</table>

<input type="button" value="View Results" 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>

<head>

<title>Employee Salary Details</title>

<script type="text/javascript">

function showsalary() {

var empname = 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;

var gross = basic + hra + da;

// pf is 13% of gross

var pf = gross \* 0.13;

// tax is 20% of gross

var tax = gross \* 0.2;

var deduction = pf + tax;

var netsalary = gross - deduction;

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

document.writeln("<tr><th> Employee salary Breakup Details</th><tr>");

document.writeln("<tr><td>Emp Name:</td><td>" + empname + "</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 Basic):</td><td>" + pf + "</td></tr>");

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

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

document.writeln("<tr><td>Net salary:</td><td>" + netsalary + "</tr>");

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

}

</script>

</head>

<body>

<form>

<table border="5">

<tr>

<th>Employee Details</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 Details" onclick="showsalary()">

</form>

</body>

</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>

<head>

<title>Mouseover and mouse out</title>

<style type="text/css">

</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>

<form>

<img src="#" alt="ZooZoo Image" id="image1" onmouseover="changeimage()" onmouseout="changeimage()"></img>

<img src="#" alt="ZooZoo Image" id="image2" onmouseover="changeimage()" onmouseout="changeimage()"></img>

</form>

</body>

</html>