

PART -A

1. write a js code to count the number of elements in a form

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Transitional//EN""http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Count From Elements</title>
    <script type="text/javascript">
      function countFormElements(){
        alert("The number of form elements are:"+document.myForm.length);
      }
    </script>
  </head>
  <body bgcolor="darkblue" text="white">
    <h1 align=center>Counting Form Elements </h1>
    <hr>

    <form name="myForm" align="left">
      <b>Name:</b>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text"/><br/><br/>
      <b>Password:</b><input type="password"/><br/><br/>
      <b>Address:</b>
      <textarea id="emailBody" cols="50" rows="10"></textarea><br/><br/>
      <b>sex:</b>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="radio" name="gender"/>Male
      <input type="radio" name="gender"/>Female<br/><br/>
      <b>Newsletter:</b><input type="checkbox" checked="checked"/><br/><br/>
      <input type="button" value="Send message" onclick="countFormElements()"/>
    </form>
  </body>
</html>
```

2. Student Validation

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Transitional//EN""http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <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);
          }
        }
      }
    </script>
  </head>
  <body>
    <form name="myForm">
      <input type="text" value="Name"/><br/>
      <input type="text" value="Password"/><br/>
      <input type="text" value="Address"/><br/>
      <input type="text" value="Email"/><br/>
      <input type="radio" name="gender" value="Male"/> Male <input type="radio" name="gender" value="Female"/> Female<br/>
      <input checked="" type="checkbox" value="Newsletter"/> Newsletter<br/>
      <input type="button" value="Validate" onclick="validate()"/>
    </form>
  </body>
</html>
```

```

        }
    }
    if(myArray.length!=0)
    {
        alert("The following Text Boxes are Empty:\n"+myArray);
    }
}
</script>
</head>
<body bgcolor="darkblue" text="white">
    <h1 align=center>Text Box Validation </h1>
    <hr color="white" height="50">

    <form name="myForm" onSubmit="validate()">
        <b>Name:</b>&nbsp;<input type="text" name="Name"/><br/><br/>
        <b>Class:</b>&nbsp;&nbsp;&nbsp;<input type="text" name="Class"/><br/><br/>
        <b>Age:</b>&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="Age"/><br/><br/>
        <input type="submit" value="Send Message"/>
    </form>
</body>
</html>

```

3.Evaluation

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Transitional//EN""http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title>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="darkblue" text="white">
        <h1 align="center">Evaluating Mathematical Expression</h1>
        <hr>

        <form name="myForm">
            <b>Enter Any Valid Expression:</b><input type="text" id="expr"/><br/><br/>
            <input type="button" value="Evaluate" onclick="evaluate()"/><br/><br/>
            <b>Result of the Expression:</b><input type="text" id="result"/><br/><br/>
        </form>
    </body>
</html>

```

4. Create a page with dynamic effects.

<!--4. Create a page with dynamic effects. Write the code to include layers and basic animation.-->

```
<?xml version="1.0" encoding="ISO-8859.1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1.transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<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="darkblue" text="white">
<div id="layer1">
alt="MyImage"</div>
<div id="layer2">
alt="MyImage"</div>
<div id="layer3">
alt="MyImage"</div>
</body>
</html>
```

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

```
<?xml version="1.0" encoding="ISO-8859.1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1.transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<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="darkblue" text="white">
<h1 align="center">Sum of Natural Numbers </h1>
<hr>
<center><form>
    <input type="button" value="Find Sum of Natural Numbers" onclick="sum()"/>
</form>
</center>
</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.

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title>Date Display</title>
        <script type="text/javascript">

            var
            days=["First","second","third","fourth","fifth","sixth","seventh","Eighth","Ninth","Tenth","Eleventh",
                "Twelfth","Thirteenth","Fourteenth","Fifteenth","Sixteenth","Seventeenth","Eighteenth","Nineteenth",
                "Twentyeth","TwentyFirst","TwentySecond","TwentyThird","TwentyFourth","TwentyFifth",
                "TwentySixth","TwentySeventh","TwentyEighth","TwentyNinth","Thirtyeth","ThirtyFirst"];

            var months=["January","February","March","April","May","June","July","August","September",
                "October","November","December"];

            var year="Two Thousand Sixteen";

            var dateObj=new Date();
            var currMonth=dateObj.getMonth();
            var currDate=dateObj.getDate();
            var currYear=dateObj.getFullYear();

            if(currYear=2016)

```

```

                alert("Today's Date is:"+days[currDate-1]+""+months[currMonth]+""+year);
            else
                alert("Today's Date is:"+days[currDate-1]+""+months[currMonth]+""+currYear);
        </script>
    </head>
</html>

```

OR

To display the date.

```

<html>
<head>
<title> Display Date </title>
<script type="text/javascript">
    var day_names=new
Array("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday");
    var month_names=new
Array("January","February","March","April","May","June","July","August","September","October","Nov
ember","December");
    var d= new Date();
    var curr_day=d.getDay();
    var curr_month=d.getMonth();
    var curr_year=d.getYear();
    var curr_date=d.getDate();
    var sp="";
    if(curr_date==1 || curr_date==21 || curr_date==31)
    {
        sp="st";
    }
    else if(curr_date==2 || curr_date==22)
    {
        sp="nd";
    }
    else if(curr_date==3 || curr_date==23)
    {
        sp="rd";
    }
    else
    {
        sp="th";
    }

    document.write("<h1><center>
<b>"+day_names[curr_day]+","+curr_date+"<sup>"+sp+"</sup>"+month_names[curr_month]+","+
curr_year+"</b></center></h1>");
</script>
</head>
<body>
</body>

```

</html>

7. Create a form for Student information. Write javascript code to find TOtal, Average,Result and Grade.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Student Data Example</title>
    <script type="text/javascript">
      function showResults()
      {
        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(marks1>=40 && marks2>=40 &&marks3>=40)
        {
          if( avg>=75){
            grade="A+";
            result="Distinction"
          }
          else if(avg<75 && avg>=60){
            grade="A";
            result="First Class"
          }
          else if(avg<60 && avg>=50){
            grade="B";
            result="Second Class"
          }
          else{
            grade="C";
            result="Third class";
          }
        }
        else
        {
          grade="D";
          result="Fail";
        }
      }
    </script>
  </head>
  <body>
    <div>
      <div>
        <div>
          <input type="text" value="Name" />
        </div>
        <div>
          <input type="text" value="Class" />
        </div>
        <div>
          <input type="text" value="Sub1" />
        </div>
        <div>
          <input type="text" value="Sub2" />
        </div>
        <div>
          <input type="text" value="Sub3" />
        </div>
        <div>
          <input type="button" value="Show Results" />
        </div>
      </div>
      <div>
        <div>
          Total:
        </div>
        <div>
          Average:
        </div>
        <div>
          Result:
        </div>
        <div>
          Grade:
        </div>
      </div>
    </div>
  </body>
</html>
```



```

        document.write("<h2>Results</h2>");
        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>");
    }
</script>
</head>
<body bgcolor="darkblue" text="white">
    <form>
        <table border="5">
            <tr>
                <td colspan="2" align="center">Student Details</td>
            </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><input type="button" value="View Results" onclick="showResults()"/>
    </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.

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

```

```

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <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 deductions=pf+tax;
        var netsalary=gross-deductions;

        document.writeln("<table border='5' bgcolor='lightgreen' >");
        document.writeln("<tr><td colspan='2' align='center'>Employee Salary Breakup
Details</td></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 Basic):</td><td>"+tax+"</td></tr>");
        document.writeln("<tr><td>Deductions (PF+TAX):</td><td>"+deductions+"</td></tr>");
        document.writeln("<tr><td><b>Net Salary(Gross-Deductions):</b></td>");
        document.writeln("<td><b>"+netsalary+"</b></td></tr>");
        document.writeln("</table>");
      }
    </script>
  </head>
  <body bgcolor="darkblue" text="white">
    <form>
      <table border="5">
        <tr><td colspan="2" align="center">EMPLOYEE DETAILS</td></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>

```

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

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title>RESTAURANT DETAILS</title>
        <script type="text/javascript">
            function findCost(){
                var major=document.getElementById("major");
                var starters=document.getElementById("starters");
                var soft=document.getElementById("soft");
                var selectedItems="Item\t\t\tPrice\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;
                        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);
                        totalcost=totalcost+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);
totalcost=totalcost+price;
selectedItems=selectedItems+selectedSoftdrink+"\t\t"+price+"\n";
}
selectedItems=selectedItems+"\n\nTotal Cost\t\t"+totalcost;
document.getElementById("ordereditems").value=selectedItems;
}
</script>
</head>
<body bgcolor="darkblue" text="white">
  <form name="Menu Form">
    <table border="10">
      <tr><th colspan="2" align="center">
        <h2>Restaurant Menu Details</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">Hyderabad Biryani</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>
        </select>
        </td>
      </tr>
      <tr>
        <td>Soft Drinks</td>
        <td><select id="soft" size="3">
          <option value="20">Pepsi</option>
          <option value="20">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>
    </table>
  </form>
</body>
</html>

```

```

        </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>

```

10. Program to evaluate the mouse over.

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <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>
        <form>
            
            
        </form>
    </body>

```


</html>