



## **SCHOOL OF APPLIED SCIENCE**

### **BSc – Computer Science**

#### **Web Programming Lab Manual**

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**A1) 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.**

```
<?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 Form 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;<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;<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>
```

**Output**

**A2) 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.**

```
<?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);
              }
          }
        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>
```

### **Output**

**A3) Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.**

```
<?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>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>
```

### **Output**

**A4) 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"></div>
    <div id="layer2"></div>
    <div id="layer3"></div>
</body>
</html>
```

### **Output**

**A5) 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>
```

### Output

**A6) 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">
    // create Array for month and day.
    var month = new
      Array("January","February","March","April","May","June","July","August","September","October","
      November","December");
    var day =new Array("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday");
    var d=new Date(); // creates a date object and stores todays date by default
    //getDate() -> returns the date (1-31)
    //getDay() -> returns the weekday(1-7)
    //getMonth()-> returns the month (1-12)
    //getFullYear() -> returns the year (in 4 digits)
    document.write("Today is - "+ d.getDate() + " - " + day[d.getDay()]+ " - " + month[d.getMonth()] + " -
    " + d.getFullYear());

  </script>
</head>
</html>
```

### Output

**A7) 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";
    }
    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/>");
}
```

&lt;/script&gt;

&lt;/head&gt;



```
<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>
```

### **Output**

**A8) 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>
    </table>
  </form>
</body>
</html>
```

```

        <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>

```

### **Output**

**A9) Create a form consists of a two Multiple choice lists and one single choice list**

- a. The first multiple choice list, displays the Major dishes available.**
- b. The second multiple choice list, displays the Starters available.**
- c. The single choice list, displays the Soft drinks available.**

```

<?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>
        </table>
    </form>
</body>
</html>
```

```
        </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>
    <tr>
        <td><input type="button" value="Find Total Cost" onclick="findCost()"/></td>
        <td><input type="reset" value="Clear"/></td>
    </tr>
</table>
</form>
</body>
</html>
```

### **Output**

**A10) Create a web page using two image files, which switch between one another as the mouse pointer moves over the image. Use the on Mouse Over and on Mouse Out event handlers.**

```
<?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>
```

**Output**



**B1) Write a program to implement list concept.**

```
<html>
<head>
<title>
Program for LISTS
</title>
</head>
<body bgcolor="green" text="white">
<center><h1> Syllabus of BCA Semester Wise </h1></center>
<hr/>
<ol type="A">
<font face="helvetica" size="4" color="yellow">
  <li> Semester I </li>
  <ul type="disc">
    <li> English </li>
    <li> Language </li>
    <li> C Programming </li>
    <li> Digital Electronics </li>
    <li> Discrete Mathematics </li>
    <li> C Programming Lab </li>
    <li> DE Lab </li>
  </ul>
</font>
<font face="Arial" size="3" color="pink">
  <li> Semester II </li>
  <ul type="square">
    <li> English </li>
    <li> Language </li>
    <li> DBMS </li>
    <li> Data structures </li>
    <li> Numerical and statistics methods</li>
    <li> DBMS LAb</li>
    <li> Data Structures Lab</li>
  </ul>
</font>
  <li> Semester III </li>
  <ul type="circle">
    <li> English </li>
    <li> Language </li>
    <li> A/C Package </li>
    <li> Operating Systems </li>
    <li> OOPS using C++</li>
    <li> A/C Package LAb</li>
    <li> OOPS using C++ Lab</li>
  </ul>
```

```
<font face="lucida handwriting" size="4" color="red">
  <li> Semester IV</li>
  <ol type="i">
    <li> English </li>
    <li> Language </li>
    <li> Visual Programming </li>
    <li> Unix Programming </li>
    <li> Operational Research</li>
    <li> Visual Programming Lab</li>
    <li> Unix Programming Lab</li>
  </ol>
</font>
<li> Semester V</li>
<ul >
  <li> Data Communication Networks </li>
  <li> Software Engineering </li>
  <li> Computer Architecture </li>
  <li> Java Programming</li>
  <li> Assembly Language Programming</li>
  <li> Java Programming Lab</li>
  <li> Assembly Lanaguage Programming Lab</li>
  <li> Project Lab</li>
</ul>
<li> Semester VI</li>
<ul ><li> Cryptography and Network Security</li>
  <li> Theory of Computation</li>
  <li> Web Programming</li>
  <li> System Programming</li>
  <li> web programming Lab</li>
  <li> Project Lab</li>
</ul>
<ol>
</body>
</html>
```

## **OUTPUT**

**B2) Write a program to create timetable of your class using table tags.**

```

<html>
<head>
<title>
Time table of VI Bsc
<link rel="shortcut icon" href="search.jpg">
</title>
<head>
<body bgcolor="green" text="white">
<center>
<table border="10" cellspacing="5" cellpadding="10">
<tr>
<td background="search.jpg" width="140" height="90"></td>
<td colspan="9" bgcolor="white" align="center"><font face="Ariel" size="7" color="darkblue">Time
Table for VI BCA</font></td>
</tr>
<tr>
<th>DAY</th>
<th>8:45 to 9:35</th>
<th> 9:35 to 10:25 </th>
<th> 10:25 to 11:15 </th>
<th> 11:15 to 11:30 </th>
<th> 11:30 to 12:20 </th>
<th> 12:20 to 1:10 </th>
<th> 1:10 to 1:50 </th>
<th> 1:50 to 2:40 </th>
<th> 2:40 to 3:30</th>
</tr>
<tr>
<td >Monday</td>
<td>Web Programming</td>
<td>SP</td>
<td>SoftSkills</td>
<td rowspan="2" align="center"> Break</td>
<td>Cryptography</td>
<td colspan="4" align="center" > Web Programming Lab</td></tr>
<tr>
<td>Tuesday</td>
<td>SP</td>
<td>Web Programming</td>
<td>SoftSkills</td>
<td>TOC</td>

```

```

<td>Web Programming </td>
<td rowspan="6"> Lunch Break </td>
<td colspan="2" rowspan="7" align="center" >Holiday</td>
</tr>
<tr>
<td>Wednesday</td>
<td>TOC</td>
<td>Cryptography</td>
<td colspan="4" align="center"> Project Lab</td>
</tr>
<tr>
<td>Thursday</td>
<td>Cryptography</td>
<td>TOC</td>
<td colspan="4" align="center"> Project Lab</td>
</tr>
<tr>
<td>Friday</td>
<td colspan="3" align="center" >Web Programming Lab</td>
<td rowspan="2" align="center" >Break</td>
<td>TOC</td>
<td>Cryptography</td>
</tr>
<tr>
<td>Saturday</td>
<td>SP</td>
<td>Web Programming</td>
<td>Cryptography</td>
<td colspan="2" align="center">Project Lab</td>
</tr>
</table>
</center>
</body>
</html>

```

### **OUTPUT**

**B3) Write a Program to create the form elements.**

```

<html>
<head>
<title>
FORM and Form Elements</title>
<script>
function formdata(ja)
{
document.write("your name :"+ja.username.value + "</br>");
document.write("your Email id :"+ja.email.value + "</br>" );
document.write("your Address :"+ja.address.value + "</br>");
document.write("Gender : "+ja.gender.value + "</br>");
document.write("Languages known :");

```

```
for( var i in ja.language)
{
if (ja.language[i].checked)
{
document.write(ja.language[i].value+ ", ");
}
}
document.write("</br>");
document.write("course completed :"+ja.course.value + "</br>");
document.write("resume file :"+ja.Resume.value + "</br>");
}
</script>
</head>
<body>
<form name="jobapp">
<label> Name: </label>
<input type="text" name="username" value="" size="25" maxlength="50"/>
<br/>
<label> Email ID: </label>
<input type="text" name="email" value="">
<br/>
<label> address: </label>
<textarea name="address" rows="6" cols="25">
pls enter your address
</textarea>
<br/>
<label> Gender: </label>
<label><input type="radio" name="gender" value="Male"/>Male</label><br/>
<label><input type="radio" name="gender" value="FeMale"/>FeMale</label><br/>
<br/>
<label>What are the Languages you can speak </label>
<label><input type="checkbox" name="language" value="Hindi"/>Hindi</label><br/>
<label><input type="checkbox" name="language" value="Tamil"/>Tamil</label><br/>
<label><input type="checkbox" name="language" value="Telugu"/>Telugu</label><br/>
<label><input type="checkbox" name="language" value="Kannada"/>Kannada</label><br/>
<label><input type="checkbox" name="language" value="Malayalam"/>Malayalam</label><br/>
<br/>
<label> Your Qualification </label>
<select name="course">
<option selected="selected" value=""> select course</option>
<option value="BCA"> BCA</option>
<option value="BCom"> BCom</option>
<option value="BBA"> BBA</option>
<option value="BSc"> BSc</option>
<option value="BA"> BA</option>
<option value="MCA"> MCA</option>
<option value="MCom"> MCom</option>
<option value="MBA"> MBA</option>
```

```
<option value="MSc"> MSc</option>
<option value="MA"> MA</option>
</select>
<br/>
<label> Resume Upload</label>
<input type="file" name="Resume"/>
<br/>
<input type="submit" name="submit" value="Submit" onclick="formdata(jobapp) "/>
<input type="reset" name="reset" value="Reset"/>
</body>
</html>
```

### **OUTPUT**

#### **B4) Write a JavaScript code to find factorial of N. (Use recursive 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>Factorial of a Natural</title>
<script type="text/javascript">
function findFactorial(){
var num=window.prompt("Enter the value of N");
var n=parseInt(num);
window.alert("Factorial of "+n+" is: "+fact(n));
}
function fact(n){
if(n==0)
return 1;
else
return(n*fact(n-1));
}
</script>
</head>
<body bgcolor="darkblue" text="white">
<h1 align="center">Factorial of a Number</h1>
<hr>
<center> <form>
<input type="button" value="Find Factorial of a Number" onclick="findFactorial()"/>
</form></center>
</body>
</html>
```

### **OUTPUT**



**B5) Write a javascript code for case conversion**

```
<?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">
<title> Case Conversion</title>
<head>
<script type="text/javascript">
function toUpper(){
document.getElementById("name").value=document.getElementById("name").value.toUpperCase();
}
function toLower(){
document.getElementById("name").value=document.getElementById("name").value.toLowerCase()
;
}
</script>
</head>
<body bgcolor="green" text="black">
<center><h1>CASE CONVERSION </h1></center>
<hr/>
<form>
<h1>Enter Your Name:<input type="text" id="name" size="50"/></h1><br/><br/>
<input type="button" value="Convert to Upper" onclick="toUpper()"/>
<input type="button" value="Convert to Lower" onclick="toLower()"/>
</form>
</body>
</html>
```

**OUTPUT****B6) Write a javascript code for navigation object**

```
<?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> Navigator Object </title>
<script type="text/javascript">
function showProperties()
{
alert("The name of the browser is:"+navigator.appname+"\n"+ "The version of the browser
is:"+navigator.appVersion+"\n"+ "The platform of the client is :"+navigator.platform);
}
</script>
</head>
<body>
<form id="myform">
<input type="button" value="Click here" onclick="showProperties()"/>
</form>
</body>
</html>
```

### **OUTPUT**

**B7)** Write a javascript code for demonstration of mouse pointer

```
<head>
<title>Mouse Positions</title>
<script type="text/javascript">
function findMousePositions(evt){
document.getElementById("showXY").value=
"Client X="+evt.clientX+
"Client Y="+evt.clientY+
"Screen X="+evt.screenX+
"Screen Y="+evt.screenY;
}
</script>
</head>
<body onmousemove="findMousePositions(event)">
<form>
Mouse Positions are:<input type="text" id="showXY" size="50"/>
</form>
</body>
</html>
```

### **OUTPUT**

**B8)** Write a javascript for movement of elemets

```
<head>
<title>Movement of Elements</title>
<style type="text/css">
#movable{
position:absolute;
```

```
}
</style>
<script type="text/javascript">
var x=5;
var y=5;
var d_x=600;
var d_y=600;
var interval=10;
function moveImage(){
if(x<d_x)x=x+interval;
if(y<d_y)y=y+interval;
document.getElementById("movable").style.top=y+'px';
document.getElementById("movable").style.left=x+'px';
if((x+interval < d_x)&& (y+interval<d_y)){
window.setTimeout("moveImage()",100);
}
}
</script>
</head>
<body onLoad="moveImage()">
<div id="movable">
</div>
</body>
</html>
```

## **OUTPUT**

