PART A

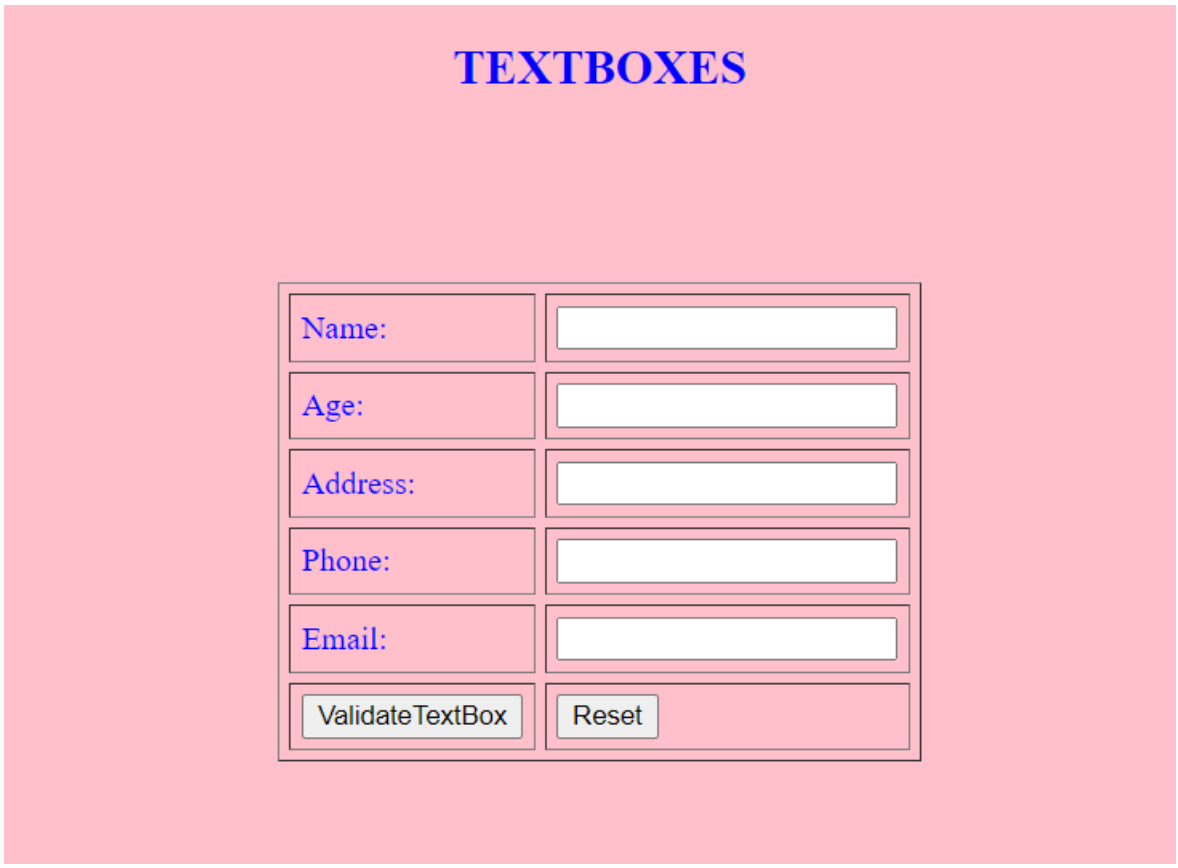
PART A

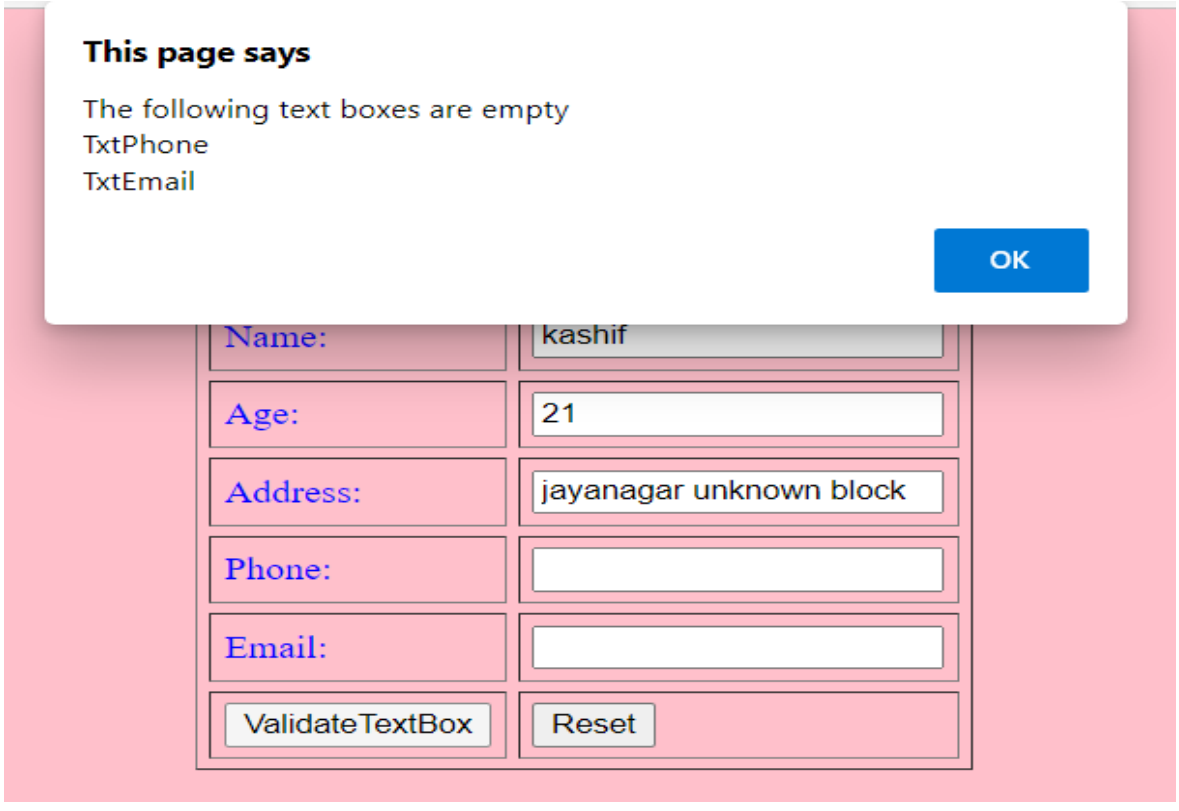
1. **Create a HTML Form that has number of textboxes. When the form runs in the browser fill the textboxes with data. Write JavaScript Code that verifies, that all textboxes have been filled. If a Textbox has been left empty, pop up an alert indicating which textbox has been left empty.**

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//w3c//DTD XHTML1.1 EN"
"http://www.w3.org/xhtml11/DTD/xhtml.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title> Validating Text Boxes </title>
<script language="javascript">
function checkTextBox()
{
 var i,textval,textboxname,j=0;
 var emptytextbox="The following text boxes are empty";
 var textboxcount=document.form1.elements.length;
 for(i=0;i<textboxcount-1;i++)
 {
  textval=document.form1.elements[i].value;
  textboxname=document.form1.elements[i].name;
  if(textval.length==0)
  {
   emptytextbox=emptytextbox + "\n" + textboxname;
   j++;
  }  }
 if(j == 0)
 alert("All textboxes are filled");
 else
 if(j == textboxcount-1)
 alert("All textboxes are empty");
 else
```

```
  alert(emptytextbox);
}
</script>
</head>
<body bgcolor="pink" text="Blue">
<center> <h2> TEXTBOXES </h2>
<form name="form1" action=" ">
<table cellpadding="5" cellspacing="5" border="1">
<tr> <td> Name: </td> <td> <input type="text" name="TxtName"/> </td> </tr></br>
<tr> <td> Age: </td> <td> <input type="text" name="TxtAge"/> </td> </tr></br>
<tr> <td> Address: </td> <td> <input type="text" name="TxtAddress"/> </td> </tr>
<tr> <td> Phone: </td> <td> <input type="text" name="TxtPhone"/> </td> </tr></br>
<tr> <td> Email: </td> <td> <input type="text" name="TxtEmail"/> </td> </tr></br>
<tr> <td> <input type="button" name="valid" value="ValidateTextBox"
onclick="checkTextBox();" /> </td>
<td> <input type="reset" name="clear" /> </td></tr>
</table>
</form></center>
</body>
```

Output:


TEXTBOXES
Name:
Age:
Address:
Phone:
Email:
ValidateTextBox
Reset

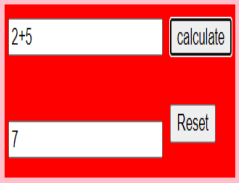

This page says
The following text boxes are empty
TxtPhone
TxtEmail
OK
Name:
kashif
Age:
21
Address:
jayanagar unknown block
Phone:
Email:
ValidateTextBox
Reset

2. Develop a HTML Form, which accepts any mathematical expression. Write a JavaScript code to evaluate the expression and display the Result.

```
<html>
<head>
<title> Solves Mathematical Expression </title>
 <script type="text/javascript">
function cal()
{
document.sample.answer.value=eval(document.sample.calculate.value)
}
</script>
</head>
<body bgcolor="Pink" text="red">
<center><form name="sample"> <h1>Enter a mathematical expression in the first box, and then use the calculate button to get the answer.</h1><br/>
<table cellpadding="4" cellspacing="0" height=100 width=200 bgcolor=red>
<tr>
<td><input type="text" size="20" name="calculate"></td>
<td><input type="button" name="Btn1" value="calculate" onclick="cal()"></td>
</tr>
<tr>
<td> <b>Answer:</b><input type="text" size="20" name="answer"></td>
<td><input type="reset" name="Btn2" value="Reset"></td>
</tr>
</table>
<h2>Click on reset button to enter again new expression.</h2>
</form></center>
</body>
</html>
```

Output:

Enter a mathematical expression in the first box, and then use the calculate button to get the answer.



Click on reset button to enter again new expression.

3. 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">
function current()
{
var
days=["First","Second","Third","Fourth","Fifth","Sixth","Seventh","Eighth","Nineth","Tenth","El
eventh","Twelfth","Thirteenth","Fourteenth","Fifteenth","Sixteenth","Seventeenth","Eighteenth","
Nineteenth","Tewntyth","Twenty First","Twenty Second","Twenty Third","Twenty
Fourth","Twenty Fifth","Twenty Sixth","Twenty Seventh","Twenty Eighth","Twenty
Nineth","Thirtyth","Thirty First"];
var
month=["January","February","March","April","May","June","July","August","September","Octo
ber","November","December"];
var year="Two Thousand and Seventeen"
var d=new Date();
var currMonth= d.getMonth();
var currDate= d.getDate();
var currYear= d.getFullYear();
if(currYear==2017)
alert("Today's Date: "+days[currDate-1] + " \nCurrent Month: " + month[currMonth] + "
\nCurrent Year is: "+year);
else
alert("Today's Date: "+days[currDate-1] + " \nCurrent Month: " + month[currMonth] + "
\nCurrent Year is: "+currYear);
}  </script>  </head>
<body bgcolor="purple" text="white">
<center><h2>Current date in words</h2>
<input type="button" onclick="current()"  value="Display"/>
</center>
</body>  </html>
```

Output:


Current date in words
Display

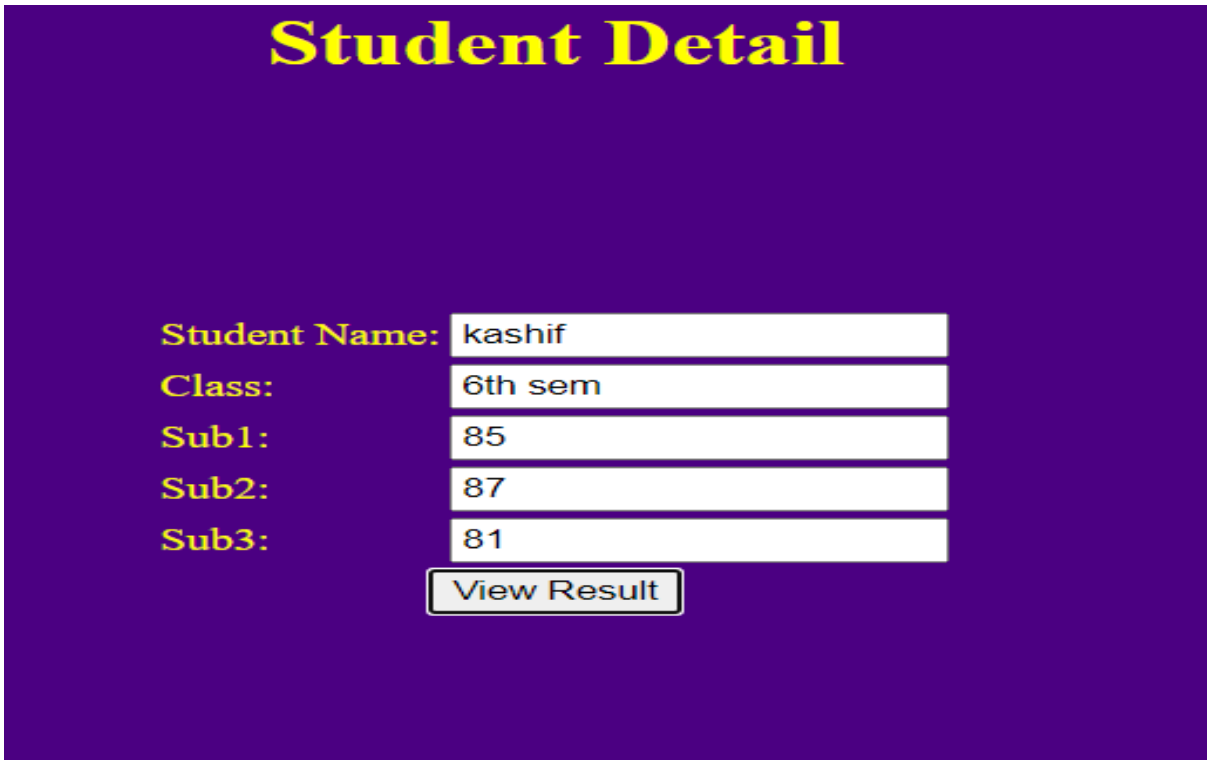

This page says
Today's Date: Seventh
Current Month: August
Current Year is: 2022
OK

4. Create a Form for student information write JavaScript code to find Total, Average, Result and Grade.

```
<html>
<head>
<script type="text/javascript">
function show()
{
var name=document.getElementById("txtname").value;
var clas=document.getElementById("txtclass").value;
var m1=parseInt(document.getElementById("txtmark1").value);
var m2=parseInt(document.getElementById("txtmark2").value);
var m3=parseInt(document.getElementById("txtmark3").value);
var sum=m1+m2+m3;
var avg=sum/3;
var grade,result;
if(avg<=100 && 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="F";
result="Fail";
}
document.writeln("<center><h2>Student Result Detail</h2></center>");
document.writeln("<center><h3>Student Name : "+ name+"</h3></center>");
document.writeln("<center><h3>Class : "+ clas+"</h3></center>");
document.writeln("<center><h3>Sub1 : "+ m1+"</h3></center>");
document.writeln("<center><h3>Sub2 : "+ m2+"</h3></center>");
document.writeln("<center><h3>Sub3 : "+ m3+"</h3></center>");
document.writeln("<center><h3>Total : "+ sum+"</h3></center>");
document.writeln("<center><h3>Average : "+ avg+"</h3></center>");
document.writeln("<center><h3>Grade : "+grade+"</h3></center>");
document.writeln("<center><h3>Result : "+result);
}
</script>
</head>
<body bgcolor="indigo" text="yellow"><center>
<h1><b> Student Detail </b></h1>
<table>
<tr><td>Student Name:</td> <td> <input type="text"  id="txtname"/></td> </tr><br />
<tr><td>Class:</td> <td> <input type="text"  id="txtclass"/></td></tr> <br />
<tr><td>Sub1:</td> <td> <input type="text"  id="txtmark1"/></td> </tr><br />
<tr><td>Sub2:</td> <td> <input type="text"  id="txtmark2"/></td></tr> <br />
<tr><td>Sub3:</td> <td> <input type="text"  id="txtmark3"/></td></tr><br />
<tr><td colspan="2"align="center"><input type="button" onclick="show()" value="View
Result"/></td>
</tr>
</table> </center>
</body>
</html>
```

Output:



Student Result Detail

Student Name : kashif

Class : 6th sem

Sub1 : 85

Sub2 : 87

Sub3 : 81

Total : 253

Average : 84.33333333333333

Grade : A

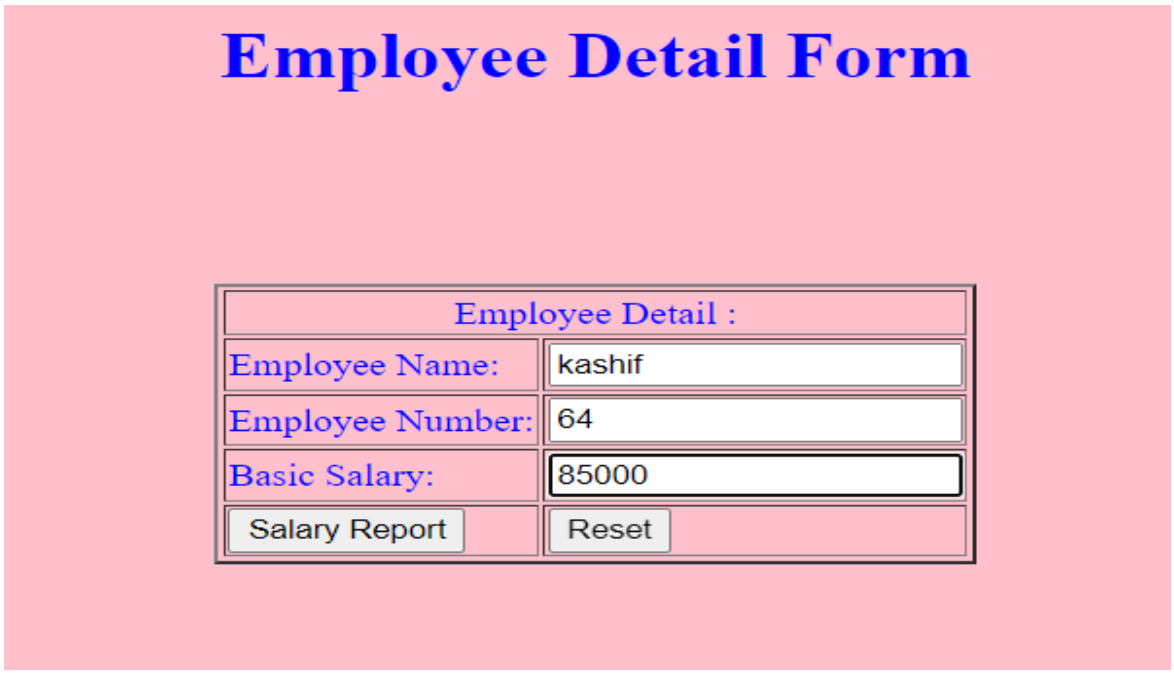
Result : First Class

5. Create a Form for employee information. Write a JavaScript code to find DA, HRA, PF, TAX, GROSS PAY, DEDUCTION AND NET PAY.

```
<html>
<head>
<script type="text/javascript">
function show()
{
var name=document.getElementById("txtname").value;
var num=document.getElementById("txtnum").value;
var sal=parseInt(document.getElementById("txtsal").value);
var hra=(sal*40)/100;
var da=(sal*60)/100;
var gross=sal+hra+da;
var pf=(sal*13)/100;
var tax=(sal*20)/100;
var deduct=pf+tax;
var net=gross-deduct;
document.writeln("<b>Employee Name : "+name+"</b>"+"<br />"+"<br />");
document.writeln("<b>Employee Number : "+num +"</b>"+"<br />"+"<br />");
document.writeln("<b>Basic Salary : "+ sal+"</b>"+"<br />"+"<br />");
document.writeln("<b>HRA : "+ hra+"</b>"+"<br />"+"<br />");
document.writeln("<b>DA : "+ da+"</b>"+"<br />"+"<br />");
document.writeln("<b>Gross Salary : "+ gross+"</b>"+"<br />"+"<br />");
document.writeln("<b>PF : "+ pf+"</b>"+"<br />"+"<br />");
document.writeln("<b>Tax : "+ tax+"</b>"+"<br />"+"<br />");
document.writeln("<b>Deduction: "+ deduct+"</b>"+"<br />"+"<br />");
document.writeln("<b>Net Salary: "+ net+"</b>"+"<br />"+"<br />");
}
</script> </head>
<body bgcolor="pink" text="blue">
```

```
<center>
<h1>Employee Detail Form</h1>
<form name="emp">
<table border="2">
<tr>
<td colspan="2" align="center">Employee Detail :</td> </tr><br />
<tr><td>Employee Name:</td> <td> <input type="text"  id="txtname"/></td></tr> <br />
<tr><td>Employee Number:</td> <td> <input type="text"  id="txtnum"/></td> </tr><br />
<tr><td>Basic Salary:</td> <td> <input type="text"  id="txtsal"/></td></tr> <br />
<tr> <td> <input type="button" onclick="show()" value="Salary Report"/></td>
<td><input type="reset" value="Reset"/></td>
</tr>
</table>
</form></center>
</body>
</html>
```

Output:



Employee Name : kashif

Employee Number : 64

Basic Salary : 85000

HRA : 34000

DA : 51000

Gross Salary : 170000

PF : 11050

Tax : 17000

Deduction: 28050

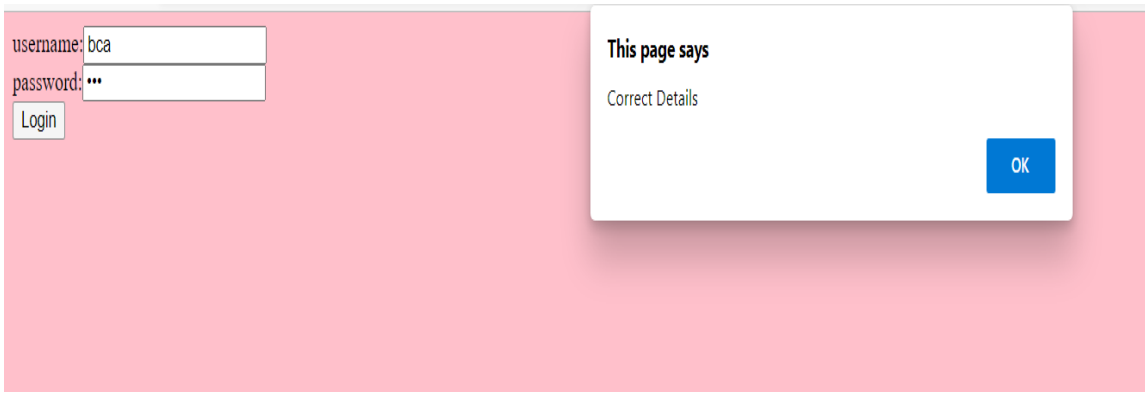
Net Salary: 141950

6. Write a program to validate Username and Password.

```
<html>
<head>
<script type="text/javascript">
function isvalid()
{
var password=document.getElementById("password").value;
var username=document.getElementById("username").value;
if(password=="123"&& username=="bca")
{
alert("Correct Details");
}
else
{
alert("Wrong username or password");
}
}
</script>
</head>
<body bgcolor="pink">
<form name="PasswordField">
username:<input type="txt" id="username" name="Username"></br/>
password:<input type="password"  id="password" name="Password"></br/>
<input type="button" value="Login" onclick="isvalid()"></br/>
</form>
</html>
```

Output:

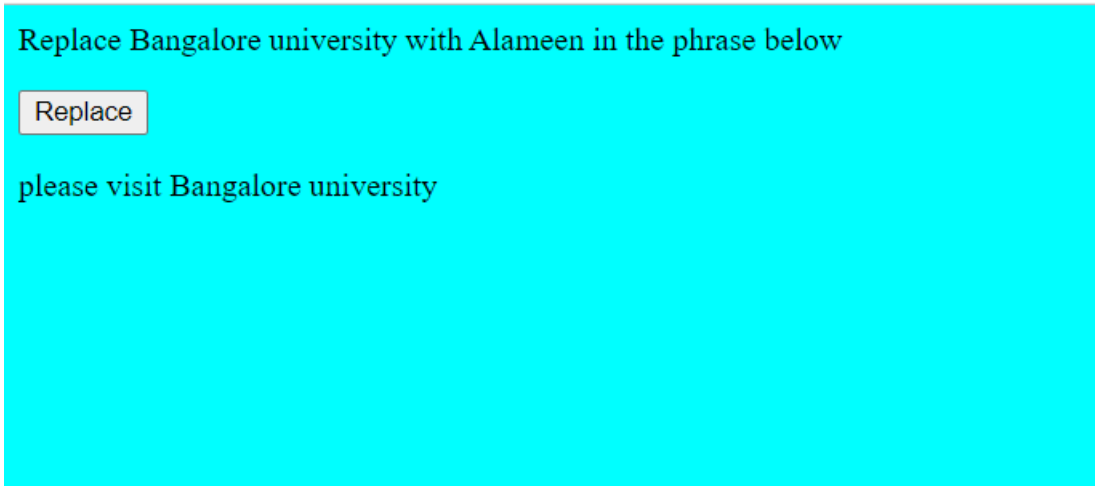

username: bca
password: •••
Login

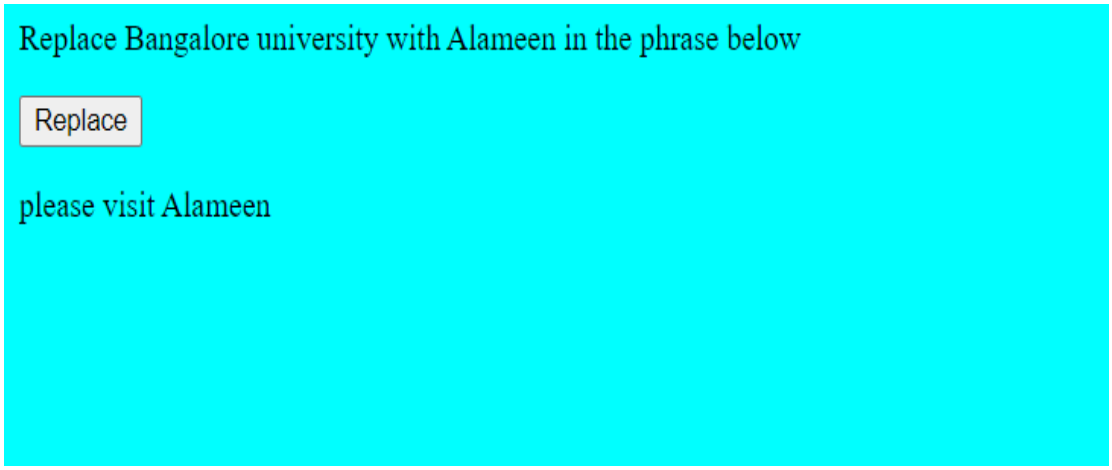

username: bca
password: •••
Login
This page says
Correct Details
OK

7. Write a program to replace string using regular expression.

```
<html>
<head>
<title> Replace string using Regular Expression</title>
<body bgcolor="Aqua">
<p>Replace Bangalore university with Alameen in the phrase below</p>
<button onclick="myfunction()"> Replace</button>
<p id="demo"> please visit Bangalore university</p>
<script>
function myfunction()
{
var str=document.getElementById("demo").innerHTML;
var txt=str.replace(/Bangalore university/,"Alameen");
document.getElementById("demo").innerHTML=txt;
}
</script>
</body>
</html>
```

Output:


Replace Bangalore university with Alameen in the phrase below
Replace
please visit Bangalore university


Replace Bangalore university with Alameen in the phrase below
Replace
please visit Alameen

8. Create a Webpage using 2 Image files, which switch between one another as a Mouse Pointer Moves over the image. Use the OnMouseOver and OnMouseOut event handlers.

```
<html>
<head>
<title>OnMouseOver and OnMouseOut</title>
<style type="text/css">

h2{font-family:arial;font-size:20pt;}
h2{color:blue;}

#image1{position:absolute;left:50px;top:50px;border:thin;visibility:visible;}
#image2{position:absolute;left:50px;top: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";
}
}
```

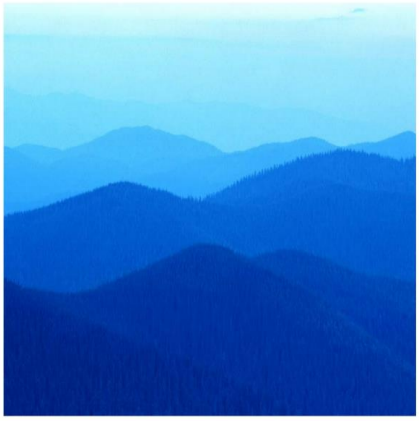
```
</script>
</head>
<body>
<center><h2> Image switching </h2></center>
<img src="Sunset.jpg" alt="sunset" id="image1" width="500" height="500"
onmouseover="changeImage()"/>
<img src="Blue hills.jpg" alt="bluehills" id="image2" width="500" height="500"
onmouseout="changeImage()"/>


</body>
</html>
```

Output:

Image switching

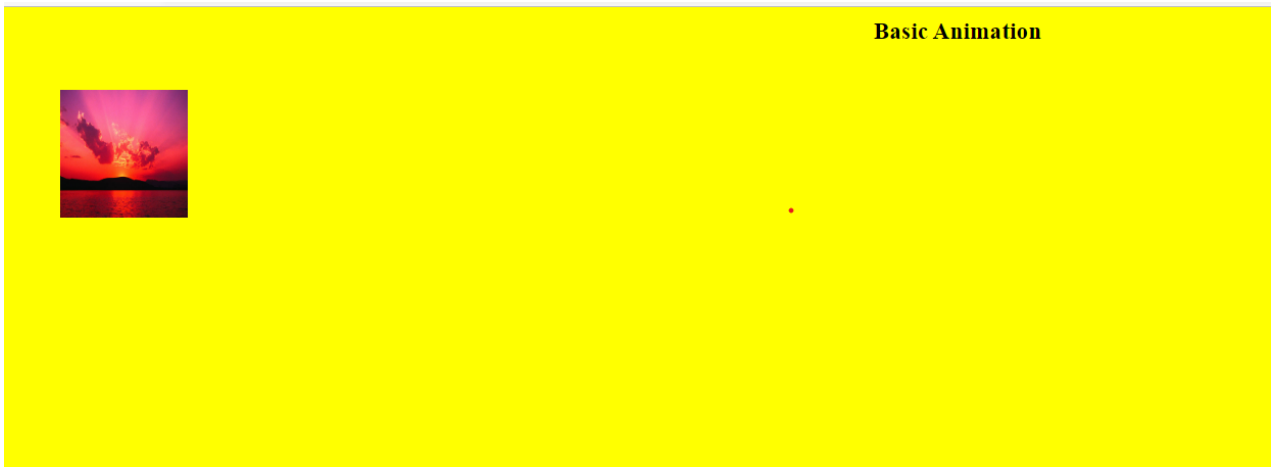
Image switching



9. Create a Webpage using JavaScript to move an image and creating basic Animation.

```
<html>
<head>
<title>Slow MOvement of Elements</title>
<style type="text/css">
#movable{position:absolute;}
</style>
<script type = "text/javascript">
var x = 5;
var y = 5 ;
var dest_x = 600;
var dest_y = 600;
var interval = 5;
function  moveImg()
{
if(x<dest_x)
x=x+interval;
if(y<dest_y)
y=y+interval;
document.getElementById("movable").style.top = y + "px";
document.getElementById("movable").style.left = x + "px";
if((x+interval<dest_x)&&(y+interval<dest_y))
window.setTimeout("moveImg()",100)        ;
}
</script> </head>
<body onload="moveImg()" bgcolor="yellow">
<h3 align="center">Basic Animation</h3>
<div id="movable"><img src="C:\Users\saima siddiqua\Desktop\wp programs\kashif/Sunset.jpg"
alt="Lilies" height="100" width="100"/></div>
</body> </html>
```

Output:



10. Create a Form which consists of 2 multiple choice list and 1 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.

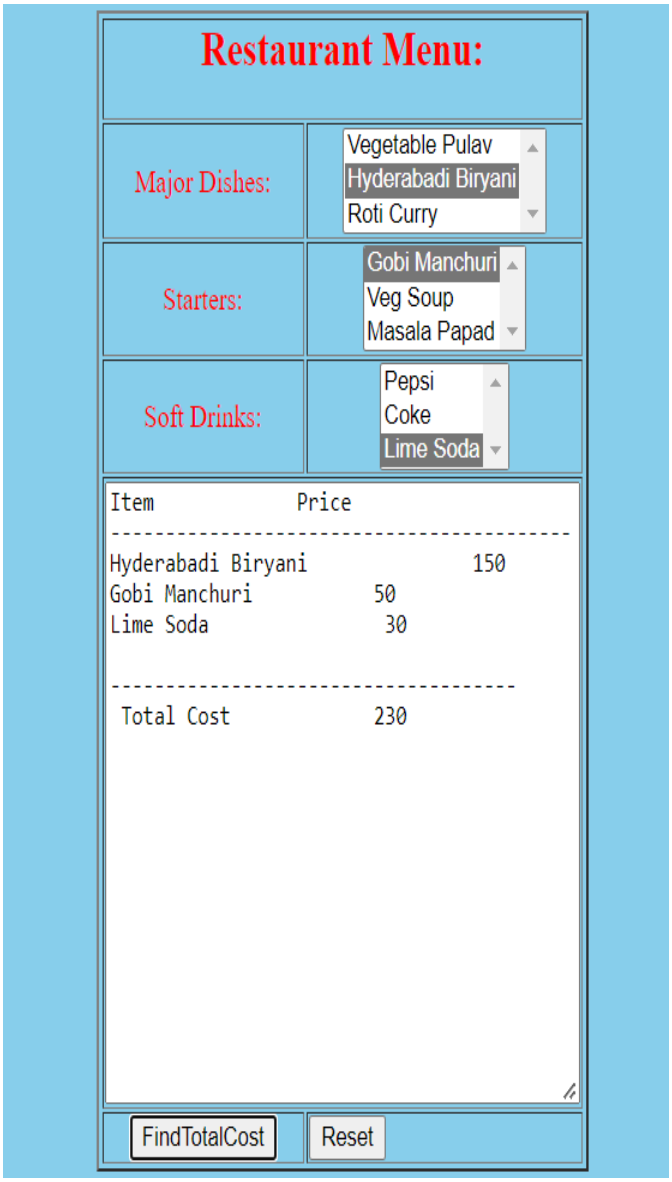
```
<html>
<head>
<script type="text/javascript">
function findcost()
{
   var major=document.getElementById("mDishes");
   var starter=document.getElementById("starters");
   var soft=document.getElementById("softdrinks");
   var selecteditems="Item \t \t Price\n----------------------------------------\n";
   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;
        selecteditems=selecteditems+option.text+"\t \t "+price+"\n";
        }
   }
for(var i=0;i<starter.options.length;i++)
   {
        var option=starter.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----------------------------------- \n Total Cost \t \t"+totalcost;
document.getElementById("ordereditems").value=selecteditems;
}
function clr()
{
document.getElementById("ordereditems").value=" "
}
</script>
</head>
<body bgcolor="skyblue" text="red">
<center>
<table border="2">
<tr >
<th colspan="2"><h2>Restaurant Menu:</h2></th>
</tr>
<tr>
<td align="center">Major Dishes:</td>
<td align="center"> <select id="mDishes" size="3" Multiple>
<option value="100">Vegetable Pulav </option>
<option value="150">Hyderabadi Biryani </option>
<option value="50">Roti Curry </option>
```

```
</select>
</td>
</tr>
<tr>
<td align="center">Starters:</td>
<td align="center"> <select id="starters" size="3" Multiple>
<option value="50">Gobi Manchuri</option>
<option value="40">Veg Soup </option>
<option value="20">Masala Papad </option>
</select>
</td></tr>
<tr>
<td align="center">Soft Drinks:</td>
<td align="center">
 <select id="softdrinks" 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="20" cols="40">
</textarea>
</td>
</tr>
<tr>
<td align="center"> <input type="button" value="FindTotalCost" onclick="findcost()"/></td>
<td><input type="reset" name="Btn2" value="Reset" onclick="clr();"></td>
</tr>
</table></center>
</body></html>
```

Output:


Restaurant Menu:
Major Dishes:
Vegetable Pulav
Hyderabadi Biryani
Roti Curry
Starters:
Gobi Manchuri
Veg Soup
Masala Papad
Soft Drinks:
Pepsi
Coke
Lime Soda
FindTotalCost
Reset


Restaurant Menu:
Major Dishes:
Vegetable Pulav
Hyderabadi Biryani
Roti Curry
Starters:
Gobi Manchuri
Veg Soup
Masala Papad
Soft Drinks:
Pepsi
Coke
Lime Soda
Item Price
Hyderabadi Biryani 150
Gobi Manchuri 50
Lime Soda 30
Total Cost 230
FindTotalCost
Reset

PART B

1. Create Webpages using Frames and hyperlinks.

main.html

```
<html>
<body bgcolor="green">
<h1> This is main page and contents from any link will be displayed here.</h1>
<h2> So now click any link and see the result.</h2>
</body>
</html>
```

menu.html

```
<html>
<body bgcolor="yellow">
<a href="page1.html" target="main">HTML</a><br>
<a href="page2.html" target="main">CSS</a>
</body>
</html>
```

page1.html

```
<html>
<body bgcolor="green">
<h1> html is a marku language </h1>
</body>
</html>
```

page2.html

```
<html>
<body bgcolor="blue">
<h1> CSS is a language used for presentation </h1>
</body>
</html>
```

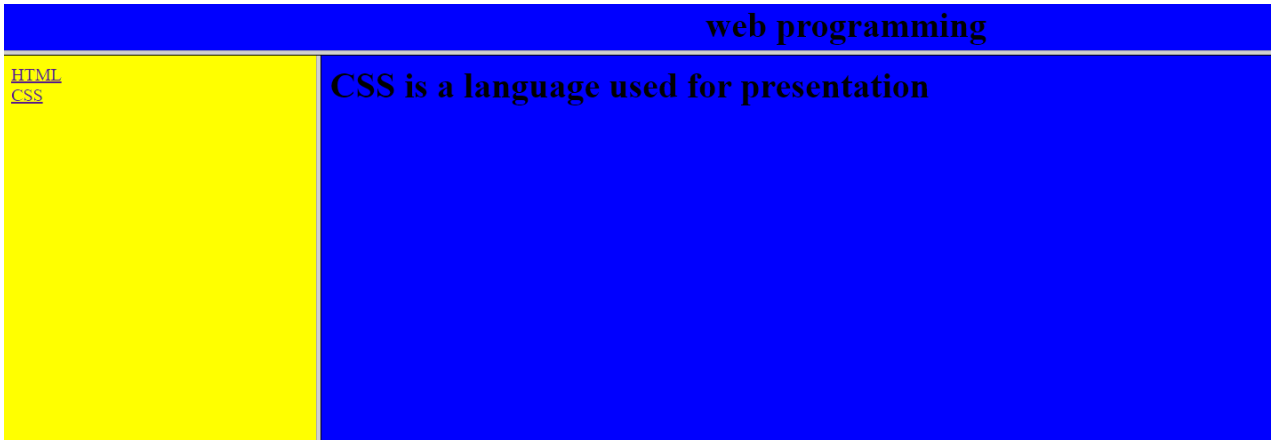
top.html

```
<html>
<body bgcolor="blue">
<h1 align="center"> web programming </h1>
</body>
</html>
```

Output:


web programming
HTML
CSS
This is main page and contents from any link will be displayed here.
So now click any link and see the result.


web programming
HTML
CSS
html is a marku language


web programming
HTML
CSS
CSS is a language used for presentation

2. Create a Webpage using CSS override Embedded level style by inline style and external style by Embedded style.

```
<html>
<head>
<title>levels of style sheets</title>
<link rel="stylesheet" type="text/css" href="external.css">
<style type="text/css">
p{
text-indent:40px;
}
h1{
font-family:arial;
color:red;
text-align:center;
text-decoration:underline;
font-size:30px;
}
h1:hover{
color:navy;
}
p.highlight{
color:green;
font-size=20px;
font-family:sans-seriff;
font-weight:900;
font-style:italic;
}
</style>
</head>
<body>
```

```
<h1> cascading style sheet </h1>
<p> css is language that applies styles to a html document
and its element to change the look and feel and is usually stored in separate
css style sheet.
this style sheet can be reused for all the web pages.
</p>
<p class="highlight" style="text-indent:400px;">
HTML+CSS=webpage</p>
</body>
</html>
```

Output:


cascading style sheet
css is language that applies styles to a html document and its element to change the look and feel and is usually stored in separate css style sheet. this style sheet can be reused for all the web pages.
HTML+CSS=webpage
cascading style sheet
css is language that applies styles to a html document and its element to change the look and feel and is usually stored in separate css style sheet. this style sheet can be reused for all the web pages.
HTML+CSS=webpage

3. Create a Webpage for nested order list using CSS.

```
<html>
<head>
<title>ordered list using css</title>
<style type="text/css">
*{
font-family:times;
background:yellow;
}
h1{
font-family:arial;
color:red;
text-align:center;
text-decoration:underline;
}
ol{
list-style-type:upper-alpha;
}
ol ol{
list-style-type:decimal;
}
ol li{
color:blue;
font-weight:bold;
font-size:20px;
}
ol ol li{
color:black;
font-weight:none;
font-size:16px;
```

```
}
</style>
</head>
<body>
<h1> BCA major subjects</h1>
<ol>
<li>1st sem</li>
<ol>
<li>problem solving technique using c</li>
<li>digital electronics</li>
<li>discrete mathematics</li>
</ol>
<li>2nd sem</li>
<ol>
<li>data structures</li>
<li>dbms</li>
<li>nsm</li>
</ol>
<li>3rd sem</li>
<ol>
<li>oop's using c++</li>
<li>fam</li>
<li>os</li>
</ol>
</ol>
</body>
</html>
```

Output:

BCA major subjects

A. 1st sem
1. problem solving technique using c
2. digital electronics
3. discrete mathematics

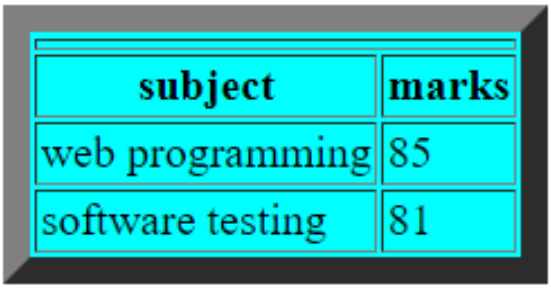
B. 2nd sem
1. data structures
2. dbms
3. nsm

C. 3rd sem
1. oop's using c++
2. fam
3. os

4. Create a Webpage to demonstrate Table tab.

```
<html>
<body>
<center><title>Marks sheet</title>
<table border="10" bgcolor="aqua">
<tr>
<th colspan="2">
</tr>
<tr>
<th>subject</th>
<th>marks</th>
</tr>
<tr>
<td>web programming</td>
<td>85</td>
</tr>
<tr>
<td>software testing</td>
<td>81</td>
</tr></center>
</body>
</html>
```

Output:

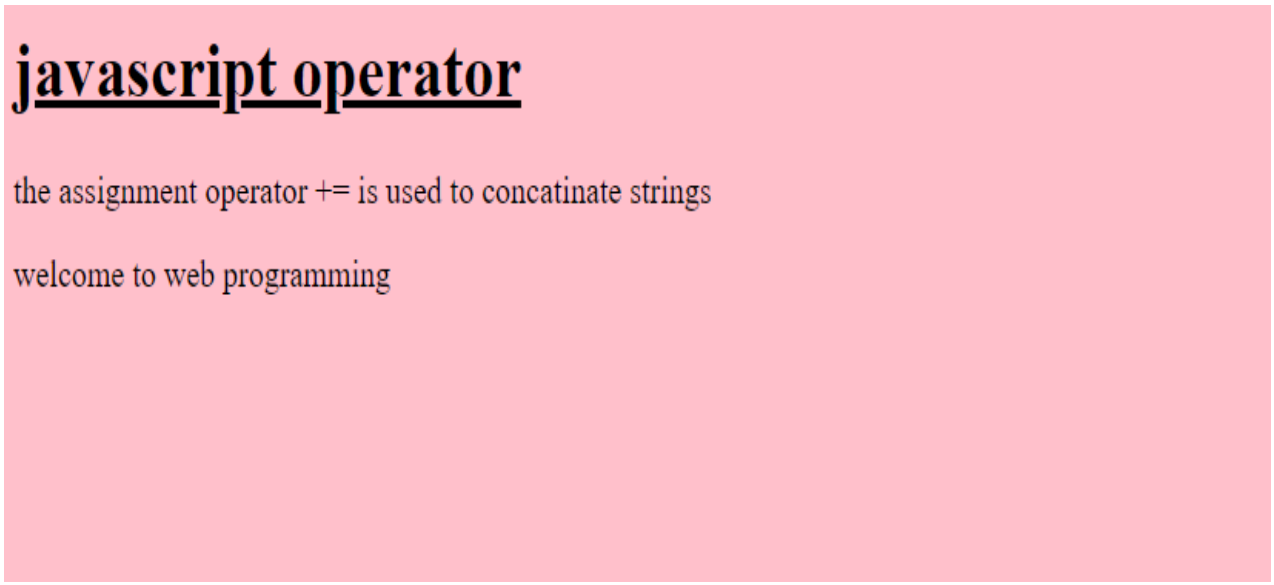


subject	marks
web programming	85
software testing	81

5. Create a Webpage to concatenate 2 strings using += operator.

```
<html>
<body bgcolor="pink">
<h1><u> javascript operator</u></h1>
<p> the assignment operator += is used to concatinate strings </p>
<p id="demo"></p>
<script>
txt1="welcome ";
txt1+="to web programming";
document.getElementById("demo").innerHTML=txt1;
</script>
</body>
</html>
```

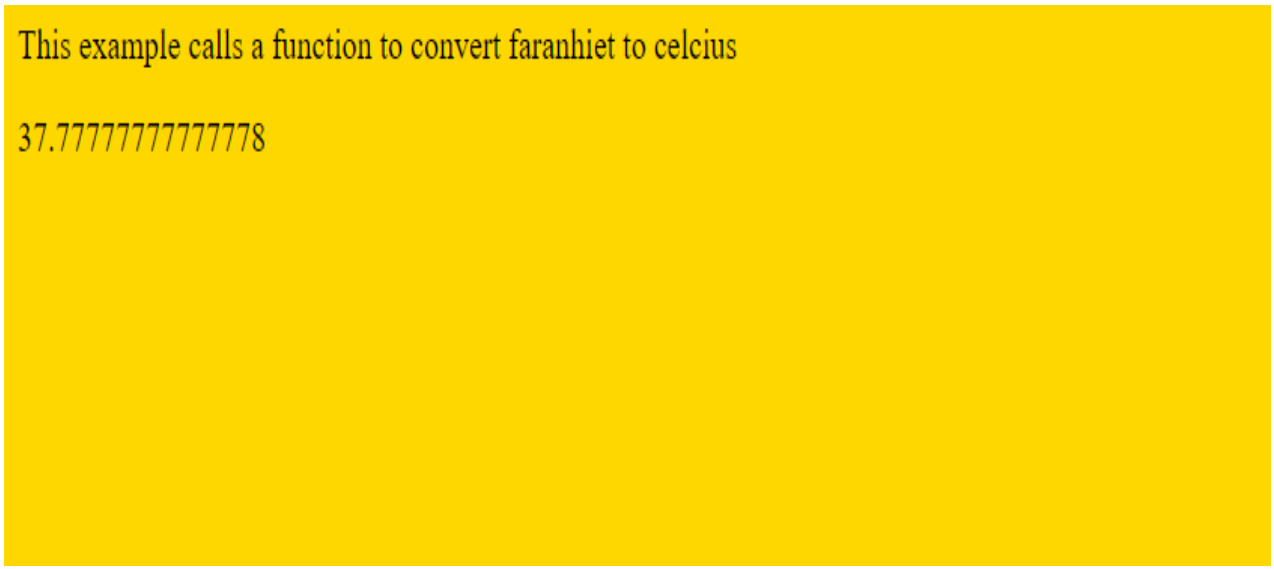
Output:


javascript operator
the assignment operator += is used to concatinate strings
welcome to web programming

6. Create a Webpage to convert Fahrenheit to Celsius using function with Arguments.

```
<html>
<body bgcolor="brown">
<p> This example calls a function to convert faranhiet to celcius </p>
<p id="demo"></p>
<script>
function tocelcius(f)
{
return (5/9)*(f-32)
}
document.getElementById("demo").innerHTML=tocelcius(100);
</script>
</body>
</html>
```

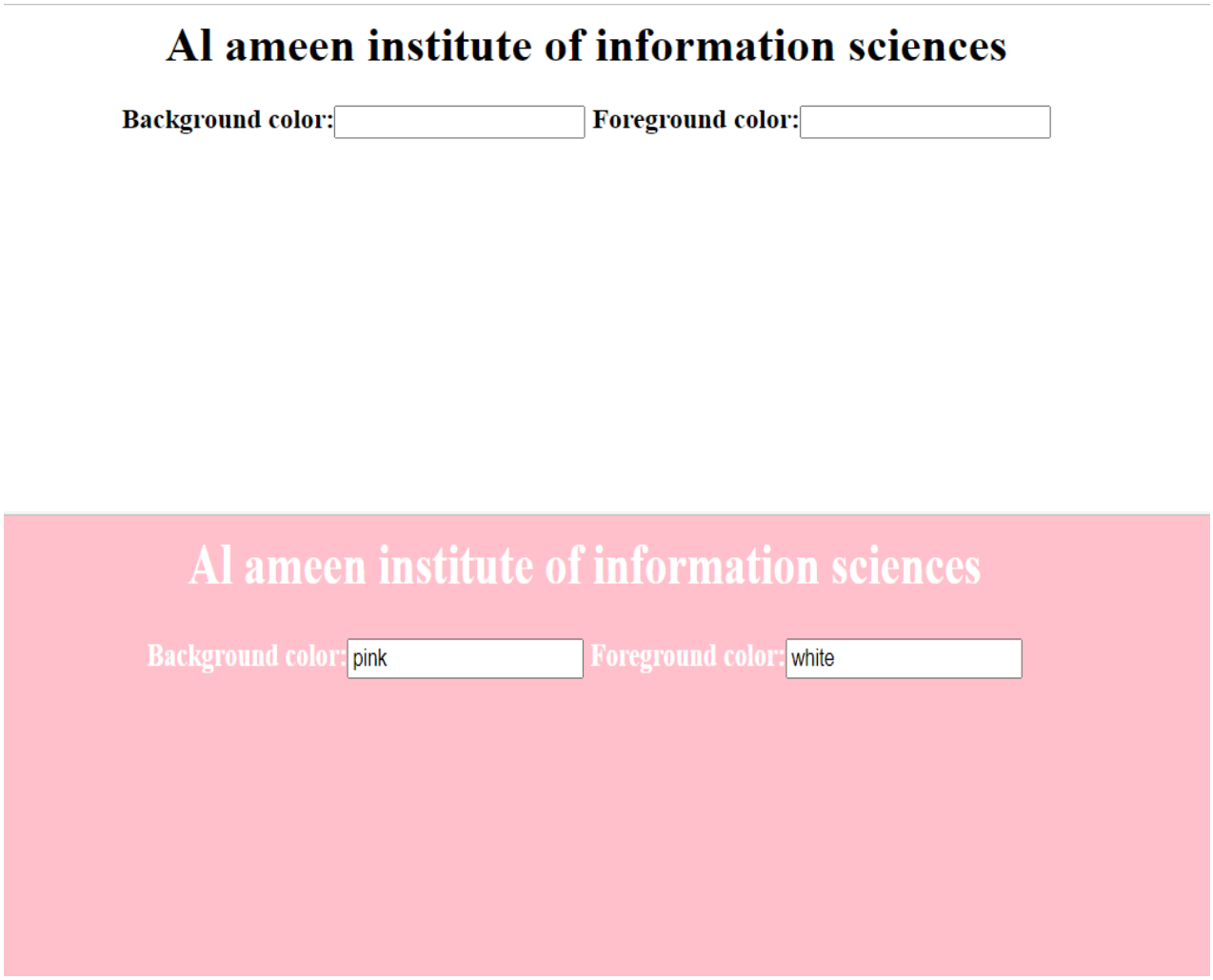
Output:


This example calls a function to convert faranhiet to celcius
37.77777777777778

7. Write a JavaScript code to change foreground and Background Colours.

```
<html>
<head>
<title> dynamic colors </title>
<style type="text/css">
p{
font-weight:bold;
font-size:18px;
text-align:center;
}
</style>
<script type="text/javascript">
function setColor(where,newColor)
{
if(where == "bg")
document.body.style.backgroundColor=newColor;
else
document.body.style.color=newColor;
}
</script>
</head>
<body>
<form>
<h1 align="center">Al ameen institute of information sciences </h1>
<p><label>Background color:<input type="text" name="bg" size="20"
onchange="setColor('bg',this.value)"/></label>
<label>Foreground color:<input type="text" name="fg" size="20"
onchange="setColor('fg',this.value)"/></label>
</p>
</form>
</body>
</html>
```

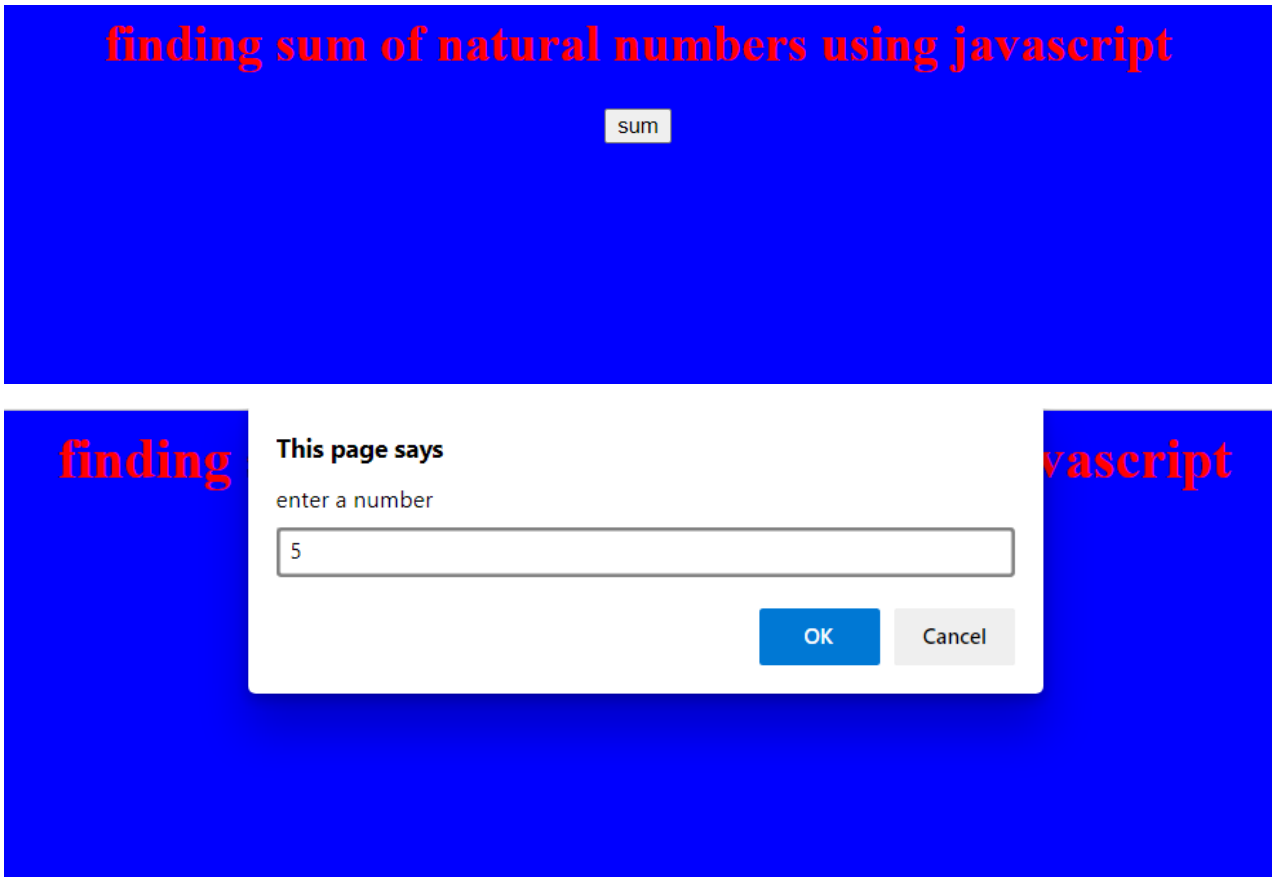
Output:


Al ameen institute of information sciences
Background color:
Foreground color:
Al ameen institute of information sciences
Background color:
pink
Foreground color:
white

8. Write a JavaScript code to find the sum of natural numbers.

```
<html>
<head>
<title> sum of natural numers</title>
<script type="text/javascript">
function sum()
{
var n=prompt("enter a number",0);
var num=parseInt(n);
var sum=0;
for(i=1; i<=num; i++)
{
sum=sum+i;
}
document.writeln("sum of "+num+" natural numers:"+sum);
}
</script>
</head>
<body bgcolor="blue" text="red">
<center><h1>finding sum of natural numbers using javascript</h1>
<input type="button" onclick="sum()" value="sum"/>
</center>
</body>
</html>
```

Output:



sum of 5 natural numers:15