Assignment 1 : Write a program to embed JavaScript into HTML

Program 1 :
```
<html>
<head>
<title> page title</title>
<script>
document.write("Welcome to JavaScript");
</script>
</head>
<body>
Hello Friends
</body>
</html>
```

Program 2 :

```
<html>
<head>
<title> page title </title>
</head>
<body>
<script>
document.write("Welcome to JavaScript );
</script>
Hello Friends
</body>
</html>
```

Assignment 8 – Create a HTML page to demonstrate Date & Time object using JavaScript

_____

```
<html>
<body>
Current Date and Time: <span id="txt"></span>
<script>
var today=new Date();
document.getElementById('txt').innerHTML=today;
</script>
</body>
</html>
```

Assignment 2 : Write a JavaScript code to demonstrate Conditional Statements.

Program 1 :If statement
```
<html>
<body>
<script>
      var a=20;
      if(a>10)
      {
              document.write("value of a is greater than 10");
      }
</script>
</body>
</html>
```

Program 2 :If Else Statement
```
<html>
<body>
 <script >
      var result;
      result=prompt("ënter the number");
      result=35;
      if(result>=35)
      {
              document.write("Pass");
      }
       else
      {
              document.write("Fail");
      }
 </script>
</body>
</html>
```

Program 3:Switch Statement
```
<html>
<head><title>Switch case</title></head>
<body>
<script>
var day;
day=parseInt(prompt("enter number of day"));
switch(day)
{
  case 1:
 document.write("monday");
  break;
  case 2:
```

```
    document.write("Tuesday");
   break;
   case 3:
    document.write("Wednesday");
   break;
   case 4:
    document.write("Thursday");
   break;
   case 5:
       document.write("Friday");
   break;
   case 6:
      document.write("Saturday");
   break;
   case 7:
    document.write("Sunday");
    break;
default:
   Document.write("invalid day")
break;
}
</script>
</body>
</html>
```

While .... Loop Program :
```
<HTML>
<head>
   <title>JavaScript While Loop</title>
</head>
<body>
   <script>
   var i = 1;
   while(i <= 5)
   {
      document.write(" number is " + i );
      i++;
   }
   </script>
</body>
</html>
```
Do... while .... Loop Program :
```
<html>
<head>
    <title>JavaScript Do-While Loop</title>
</head>
<body>
   <script>
   var i = 1;
   do {
      document.write(" number is " + i );
      i++;
   }
   while(i <= 5);
   </script>
</body>
</html>
```
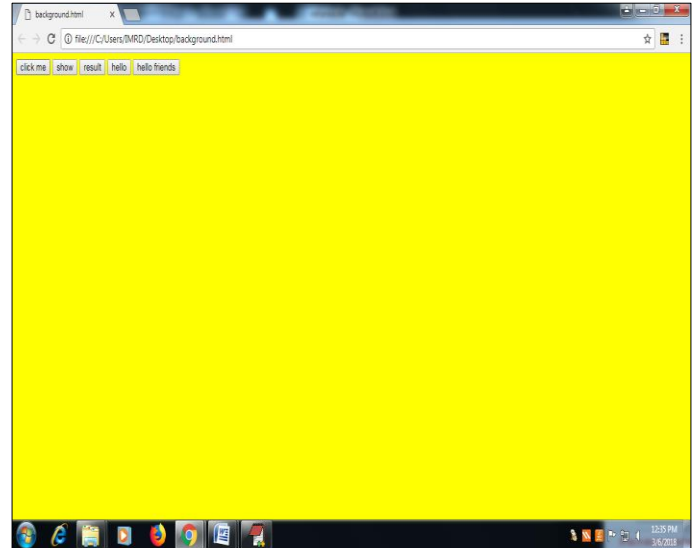
For.... Loop Program :
```
<html>
<body>
<script>
for (i=1; i<=5; i++)
{
        document.write(i + "<br/>")
}
</script>
</body></html>
```

Assignment 6 – Write JavaScript code to demonstrate different events.

_____

```html
<html>
<script>
function bca1()
{       document.bgColor="yellow";        }
function bca2()
{       document.bgColor="red";     }
function bca3()
{       document.bgColor="orange";        }
function bca4()
{       document.bgColor="pink";   }
function bca5()
{       document.bgColor="blue";   }
</script>
<BODY>
<form name="f1">
<input type="button" value="click me"
onClick="bca1()">
<input type="button" value="show"
onMouseOver="bca2()">
<input type="button" value="result"
onMouseOut="bca3()">
<input type="button" value="hello"
onMouseMove="bca4()">
<input type="button" value="hello friends"
onBlur="bca5()">
</form>
</BODY>
</HTML>
```

Output:

Assignment 4 – Write JavaScript code to demonstrate different string functions.
_____

```
<html><head><title>JS String Function</title>
<script>
var s1="Javascript toUpperCase Example";
var s2=s1.toUpperCase();
document.write(s2+"<br>" );

var s1="Javascript toLowerCase Example";
var s2=s1.toLowerCase();
document.write(s2+"<br>");

var str="Javascript";
document.write("Element at Position 2 is : " +
str.charAt(2)+"<br>");

var a="welcome to ";
var b="Javascript";
var c=a.concat(b);
document.write(c+"<br>");

var s1="     Hello..Welcome to JS     ";
var s2=s1.trim();
document.write(s2+"<br>");

var a="abcdef";
var b=a.slice(2,5);
document.write(b+"<br>");

var s1="Javascript IndexOf";
var s2=s1.indexOf("a");
document.write(s2+"<br>");

var s1="Javascript LastIndexOf";
var s2=s1.lastIndexOf("a");
document.write(s2+"<br>");
</script></head><body></body></html>
```
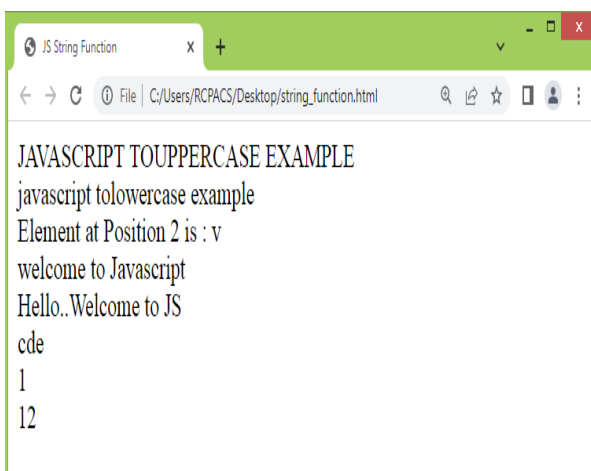**Output:**

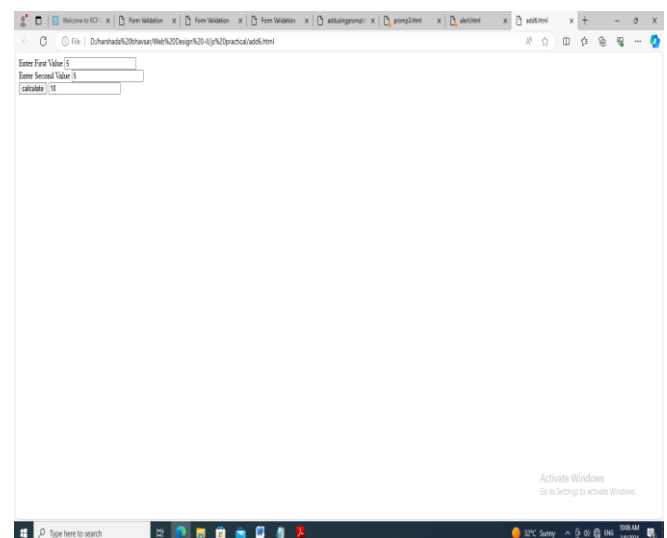

Assignment 7 – Write JavaScript Code to perform addition of two number using web form

```
<html>
 <head>
<script>
function fun1()
{
       var
a=parseInt(document.getElementById("txt1").value);
       var
b=parseInt(document.getElementById("txt2").value);
       var c=a+b;
document.getElementById("answer").value=c;
       alert(c);
       }
</script>
 </head>

 <body>

 Enter First Value <input id="txt1" /> <br>
 Enter Second Value <input id="txt2" /> <br>

 <button onclick="fun1()"> calculate
</button>
 <input id="answer">
 </body>
</html>
```
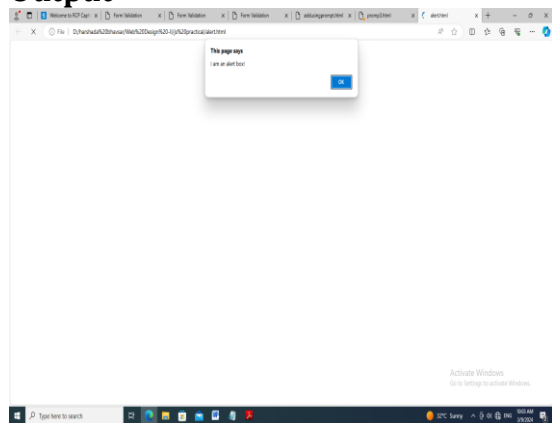
Assignment 9 – Write JavaScript Code to demonstrate use of Dialog Boxes (Alert, Confirm, and Prompt)

_____

Alert -

```
<html>
<body>
<script>
        alert("This is a alert box");
</script>
</body>
</html>
```

Output-

Prompt dialog Program –

```
<html>
<body>
<script type="text/javascript">
        var a = parseInt(window.prompt("enter
the number"));
        var b=  parseInt(window.prompt("enter
the second number"));
c=a+b;
alert(c);
</script>
</body>
</html>
```


Confirm dialog Program –

```
<html>
<body>
<script type="text/javascript">
function test()
{
var a = window.confirm("Your choice?");
if(a)
{
                alert("Yes");
}
else
{
                alert("No");
}
}
</script>
<form name ="f1" >
<input type ="button" value="Click me"
onClick="test()">
</form>
</body>    </html>
```
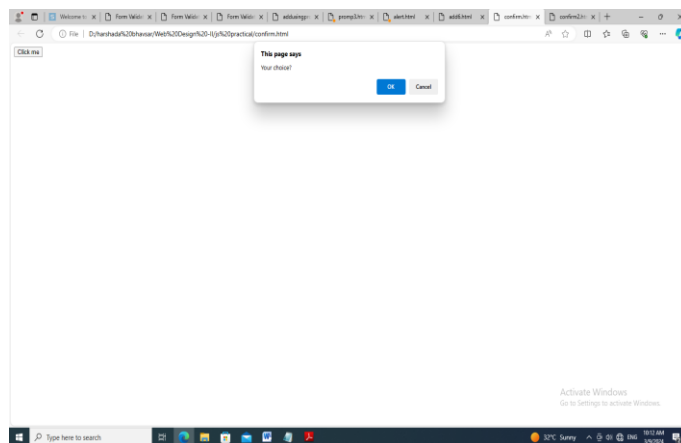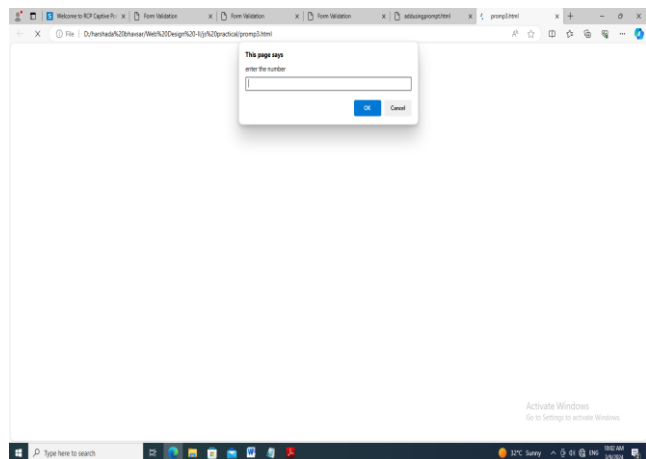
Output:-

5: Write JavaScript code to demonstrate onblur, onfocus, onload, onsubmit.

Onblur and onfocus:-
```
<html>
<body>

Enter your name:
<input type="text" id="myInput"
onfocus="focusFunction()"
onblur="blurFunction()">

<script>
function focusFunction()
{
    // Focus = Changes the background color of
input to yellow

document.getElementById("myInput").style.ba
ckground = "yellow";
}

function blurFunction()
{
    // No focus = Changes the background color
of input to red

document.getElementById("myInput").style.ba
ckground = "purple";
}
</script>

</body>
</html>
```

Onload event:-
```
<html>
<body onload="myFunction()">
<h1>Hello World!</h1>
<script>
function myFunction()
{
 alert("Page is loaded");
}
</script>
</body>
</html>
```

Onsubmit event:-
```
<html>
<body>
<form  onsubmit="myFunction()">
  Enter name: <input type="text"
name="fname">
  <input type="submit" value="Submit">
</form>
<script>
function myFunction()
{
 alert("The form was submitted");
}
</script>
</body>
</html>
```

Assignment 10: Write a JavaScript to apply form validation – not null, number, string etc.

//String Validation Program

```
<html> <head>
<title>Form Validation</title>
<script>
function validateform()
{
var
name=document.getElementById('n1').value;
if(!isNaN(name))
{
alert("Name field contains Characters only");
} }
</script>
</head>
<body>
<form name="myform"
onsubmit="validateform()">
<center>
Enter the Name: <input type="text" id="n1"
name="n1">
<input type="submit" value="Submit">
</center>
</form>
</body>
</html>
```

//Number Validation Program

```
<html> <head>
<title>Form Validation</title>
<script>
function validateform()
{
var
name=document.getElementById('n1').value;
if(isNaN(name))
{
alert("Enter Digits only");
}  }
</script>
</head>
<body>
<form name="myform"
onsubmit="validateform()">
<center>
Mobile Number: <input type="text" id="n1"
name="n1">
<input type="submit" value="Submit">
</center>
</form>
</body>
</html>
```

//not null validation Program

```
<html>
 <head>
<title>Form Validation</title>
<script>
function validateform()
{
var
name=document.getElementById('n1').value;
if(name==null || name=="")
{
alert("Name field should not be blank");
}  }
</script>
</head>
<body>
<form name="myform"
onsubmit="validateform()">
<center>
Name: <input type="text" id="n1" name="n1">
<input type="submit" value="Submit">
</center>
</form>
</body>
</html>
```