

JavaScript Programs

1) Develop a web page to display the following screen. User can enter a number in the first text box. On clicking the show button, product of all numbers from 1 to the entered limit should be displayed in the second text box.

```
<html>

<head>

  <Script Language="JavaScript">

    function Product()

    {

      var p=1,i;

      var n=document.frmProduct.txtNum.value;

      for(i=1;i<=n;i++)

      {

        p=p*i;

      }

      document.frmProduct.txtResult.value=p;

    }

  </Script>

</head>

<body>

<center>

<form name="frmProduct">
```

Enter the limit <input type="text" name="txtNum">

Product upto the limit <input type="text" name="txtResult">

<input type="button" value="Show" onClick="Product()">

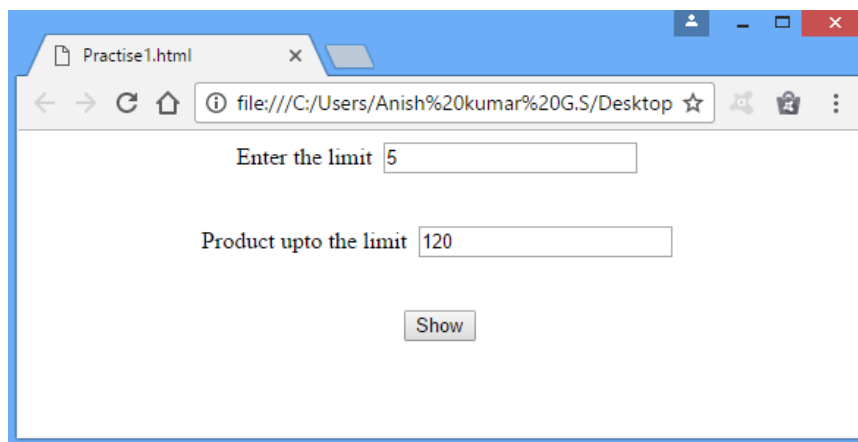
</form>

</body>

</center>

</html>

Output:-



2)Develop a web page to display the following screen.User enter a number in the first text box.On clicking the show button,Even or Odd should be displayed in the second text box depending whether the number is even or odd.

<html>

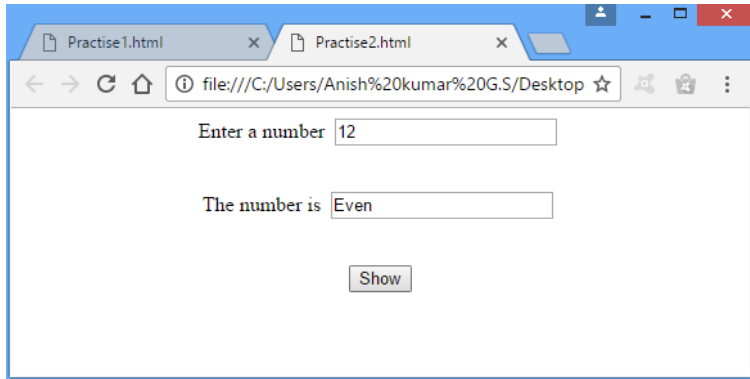
<head>

<Script Language="JavaScript">

function Check()

```
{  
    var n=document.frmCheck.txtNum.value;  
    if(n%2==0)  
        document.frmCheck.txtResult.value="Even";  
    else  
        document.frmCheck.txtResult.value="Odd";  
}  
  
</Script>  
  
</head>  
  
<body>  
  
<center>  
  
<form name="frmCheck">  
  
Enter a number&nbsp;&nbsp;&nbsp;<input type="text" name="txtNum">  
  
<br><br><br>  
  
The number is&nbsp;&nbsp;&nbsp;<input type="text" name="txtResult">  
  
<br><br><br>  
  
<input type="button" value="Show" onClick="Check()>  
  
</form>  
  
</body>  
  
</center>  
  
</html>
```

Output:-



3) Develop a web page to display the following screen. The user can enter an age in the text box. If the user enters an alphabet instead of a number in the text box, on clicking the show button, it should display a message "Invalid Age" to the user. Otherwise, it should display a message "Correct Data".

```
<html>
```

```
<head>
```

```
<Script Language="JavaScript">
```

```
function Check()
```

```
{
```

```
var age=document.frmCheck.txtNum.value;
```

```
var flag;
```

```
flag=isNaN(age);
```

```
if(flag==true)
```

```
alert("Invalid Age");
```

```
else
```

```
alert("Correct Data");
```

```

    }

</Script>

</head>

<body>

<center>

<form name="frmCheck">

Enter age &nbsp;&nbsp;&nbsp;<input type="text" name="txtNum">

<br><br><br>

<input type="button" value="Show" onClick="Check()">

</form>

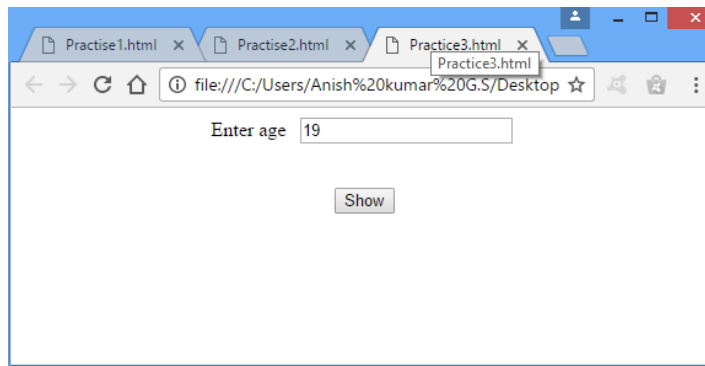
</body>

</center>

</html>

```

Output:-



4) Develop a web page to display the following screen. The user can enter a number in the text. If the user entered a Number, on clicking the check button, it should display "Number" otherwise it should display "Not a Number".

```
<HTML>

<HEAD>

    <TITLE>Calculator</TITLE>

    <SCRIPT Language="JavaScript">

function Check( )

{

var num;

var Flag;

num=document.frmCheck.txtNum.value;

Flag=isNaN(num);

if(Flag==true)

document.frmCheck.txtResult.value="Not a Number";

else

document.frmCheck.txtResult.value="Number";

}

</SCRIPT>

</HEAD>

<FORM name=frmCheck>

<CENTER>

Enter a Number:

<INPUT Type="text" name="txtNum">
```


Result:

<INPUT Type="text" name="txtResult">

<INPUT Type="button" value="Check" onClick="Check()">

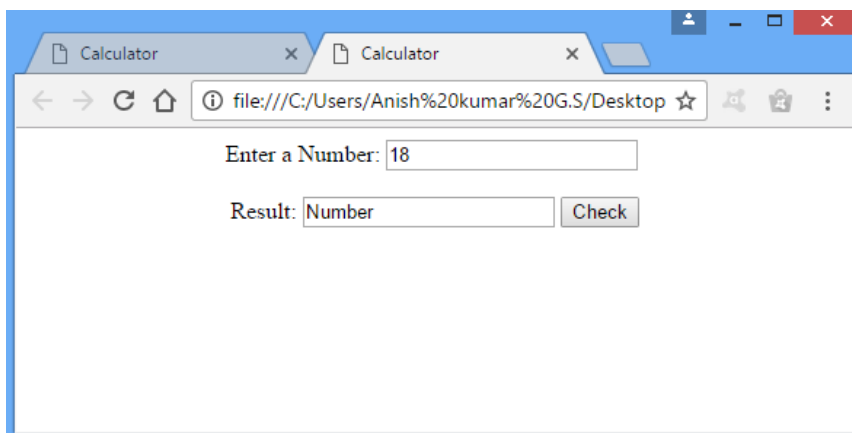
</CENTER>

</FORM>

</BODY>

</HTML>

Output:-



5) A web page should contain one text box for entering a text. There should be two buttons labelled "To Upper Case" and "To Lower Case".On clicking each button, the content in the text box should be converted to upper case or lower case accordingly. Write the required

JavaScript for these operations. <HTML>

<HEAD>

<TITLE>String_Conversion</TITLE>

<SCRIPT Language="JavaScript">

function upper()

```

{

document.frmconvert.txtconvert.value=document.frmconvert.txtstring.value.toUpperCase();

}

function lower( )

{

document.frmconvert.txtconvert.value=document.frmconvert.txtstring.value.toLowerCase();

}

</SCRIPT>

</HEAD>

<BODY>

<FORM Name="frmconvert">

<CENTER>

Enter the String:

<INPUT Type="text" Name="txtstring">

<BR><BR>

<INPUT Type="text" Name="txtconvert">

<BR><BR>

<INPUT Type="button" value="To Upper Case" onClick="upper( )">

<INPUT Type="button" value="To Lower Case" onClick="lower( )">

```

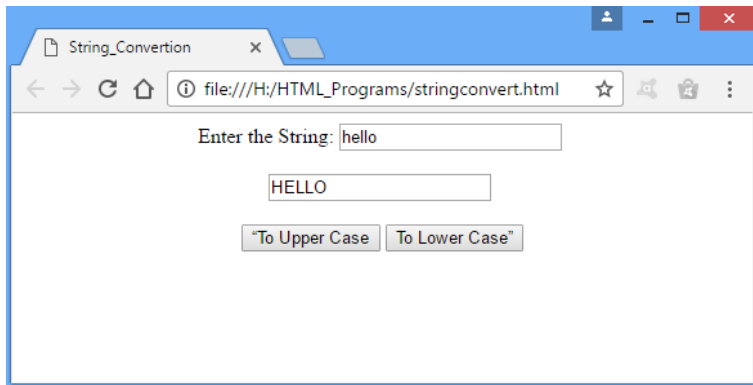

</CENTER>

</FORM>

</BODY>

</HTML>

Output:-



6) Develop a simple calculator using JavaScript. The web page should contain two text boxes of entering two numbers and another text box for displaying the answer. There should be four buttons to perform addition, subtraction, multiplication and division. On clicking a button, the corresponding result should be displayed in the answer box. Write the required JavaScript.

<HTML>

<HEAD>

<TITLE>Calculator</TITLE>

<SCRIPT Language="JavaScript">

function plus()

{

var num1,num2,result;

num1=document.frmcalc.txtNum1.value;

num2=document.frmcalc.txtNum2.value;

result=Number(num1)+Number(num2);

document.frmcalc.txtResult.value=result;

}

function minus()

```

{
var num1,num2,result;
num1=document.frmcalc.txtNum1.value;
num2=document.frmcalc.txtNum2.value;
result=Number(num1)-Number(num2);
document.frmcalc.txtResult.value=result;
}
function div( )
{
var num1,num2,result;
num1=document.frmcalc.txtNum1.value;
num2=document.frmcalc.txtNum2.value;
result=Number(num1)/Number(num2);
document.frmcalc.txtResult.value=result;
}
function mul( )
{
var num1,num2,result;
num1=document.frmcalc.txtNum1.value;
num2=document.frmcalc.txtNum2.value;
result=Number(num1)*Number(num2);
document.frmcalc.txtResult.value=result;
}
</SCRIPT>
</HEAD>
<FORM name=frmcalc>
<CENTER>
Number 1
<INPUT Type="text" name="txtNum1">
<BR><BR>
Number 2
<INPUT Type="text" name="txtNum2">
<BR><BR>
Answer

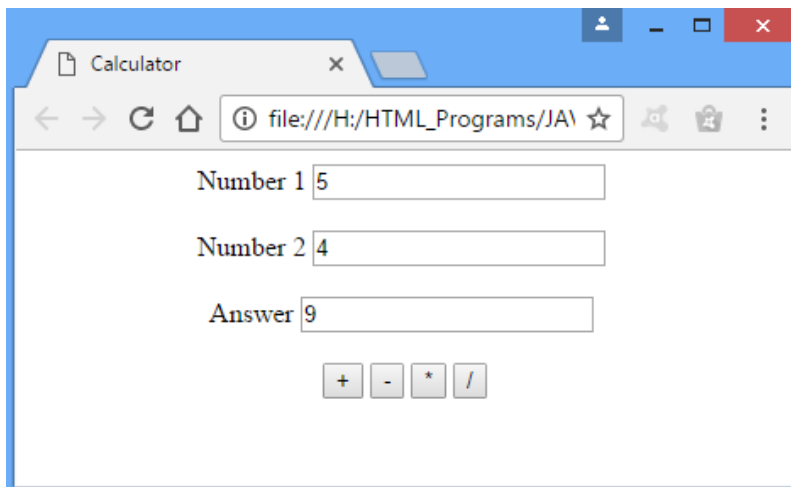
```

```

<INPUT Type="text" name="txtResult">
<BR><BR>
<INPUT Type="button" value="+" onClick="plus()">
<INPUT Type="button" value="-" onClick="minus()">
<INPUT Type="button" value="*" onClick="mul()">
<INPUT Type="button" value="/" onClick="div()">
</CENTER>
</FORM>
</BODY>
</HTML>

```

Output:-



7) Develop a web page to find the capital of Indian States. The page should contain a dropdown list from which the user can select a state. On clicking the show button, the web page should display the capital of the state in another text box. Write the required JavaScript.

```

<HTML>
<HEAD>
<TITLE>Capital Of States</TITLE>
<SCRIPT Language="JavaScript">
function Capital( )
{
var n,answer;
n=document.frmCapital.cboState.selectedIndex;

```

```

switch (n)
{
case 0: answer="Thiruvananthapuram";break;
case 1:answer="Bengaluru";break;
case 2:answer="Chennai";break;
case 3:answer="Mumbai";break;
}
document.frmCapital.txtCapital.value=answer;
}
</SCRIPT>
</HEAD>
<FORM Name="frmCapital">
<CENTER>State:
<SELECT Size=1 Name="cboState">
<OPTION>Kerala</OPTION>
<OPTION>Karnataka</OPTION>
<OPTION>Tamilnadu</OPTION>
<OPTION>Maharashtra</OPTION>
</SELECT>
<BR><BR>
Capital:
<INPUT Type="Text" Name="txtCapital">
<BR><BR>
<INPUT Type="Button" value="Show" onClick="Capital ( )">
</CENTER>
</FORM>
</BODY>
</HTML>

```

Output:-

