

Program 7: Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient

Code:

```
<!DOCTYPE html>
<html>
<head>
<title>Calculator</title>
<style>
body
{
margin:150px;
}
input{
width:100%;
height:100%;
}
</style>
<script>
function display(x){
document.getElementById("text1").value+=x;
}
function compute(){
var x = document.getElementById("text1").value;
document.getElementById("text1").value = eval(x);
}
</script>
</head>

<body>
<center>
<form>
  <table border="1" bgcolor="lime" height="300px" width="300px">
    <tr>
<th colspan=4><h1>Calculator</h1></th>
</tr>
<tr >

<td colspan=4><input type="text" id="text1" placeholder="0" style="text-align:right;"/></td>

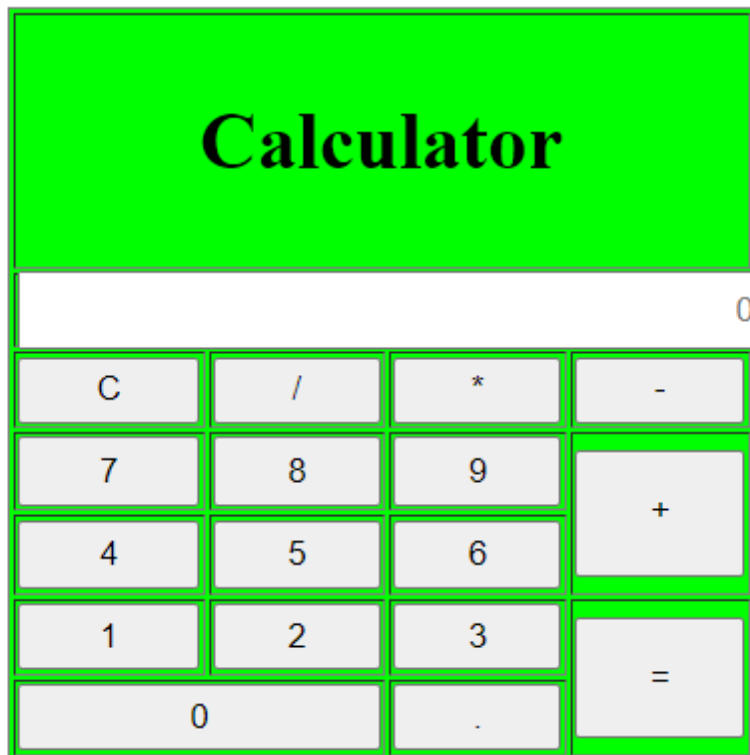
</tr>
<tr>
<td><input type="reset" value="C" /></td>
<td><input type="button" value="/" onClick="display(this.value)"/></td>
<td><input type="button" value="*" onClick="display(this.value)"/></td>
<td><input type="button" value="-" onClick="display(this.value)"></td>
</tr>
<tr>
<td><input type="button" value="7" onClick="display(this.value)"></td>
<td><input type="button" value="8" onClick="display(this.value)"></td>
<td><input type="button" value="9" onClick="display(this.value)"></td>
<td rowspan=2><input type="button" value="+" style="height:50px;"
```

```

onClick="display(this.value)"></td>
</tr>
<tr>
<td><input type="button" value="4" onClick="display(this.value)"></td>
<td><input type="button" value="5" onClick="display(this.value)"></td>

<td><input type="button" value="6" onClick="display(this.value)"></td>
</tr>
<tr>
<td><input type="button" value="1" onClick="display(this.value)"></td>
<td><input type="button" value="2" onClick="display(this.value)"></td>
<td><input type="button" value="3" onClick="display(this.value)"></td>
<td rowspan=2><input type="button" value="=" style="height:48px;"
onClick="compute()" ></td>
</tr>
<tr>
<td colspan=2><input type="button" value="0" onClick="display(this.value)"
style="width:100%"></td>
<td><input type="button" value="." onClick="display(this.value)"></td>
</tr>
</table>
</form>
</center>
</body>
</html>

```



Program 8: Write a Program to create a html page to display a new image & text when the mouse comes over the existing content in the page

Code:

```
<html>

<head>

  <title>Mouse Event onmouseover and onmouseout</title>

  <script>

    function mouseHover(image)

    {
```

```

        image.src = "demo.jpeg";
    }

    function mouseOut(image)
    {
        document.getElementById("p2").innerHTML = "New Line";

        image.src= "dog.jpeg";

        document.getElementById("p1").innerHTML = "This is a text on mouse out Event";

    }
</script>
</head>
<body>

    <p id="p2"></p>

    <p id = "p1"></p>

</body>
</html>

```

Program 9: Write a Javascript program to display the calendar using javascript code by getting the year from the user.

```

<html>
<head>
<script language="javascript">
function day_title(day_name)
{
document.write("<td align=center width=35
bgcolor=lightblue><b>"+day_name+"</b></td>");
}
function fill_table(month,month_len)
{
day=1;
document.write("<table border=1 cellspacing=3 cellpadding=3%>");
document.write("<td colspan=7 align=center bgcolor=red><b>"+month+"
"+year+"</b><tr>");

```

```

day_title("Sun");
day_title("Mon");
day_title("Tue");
day_title("Wed");
day_title("Thu");
day_title("Fri");
day_title("Sat");
document.write("</tr><tr>");
for(var i=1; i<start_day;i++)
{
document.write("<td>");
}
for(var i=start_day; i<8;i++)
{

document.write("<td align=center bgcolor=silver>"+day+"</td>");
day++;
}
document.write("<tr>");
while(day<=month_len)
{
for(var i=1; i<=7 && day<=month_len;i++)
{
document.write("<td align=center bgcolor=silver>"+day+"</td>");
day++;
}
document.write("<tr>");
start_day=i;
}
document.write("</tr></table><br>");
}
year=prompt("enter 4 digit year ",2016);
today=new Date("January 1, "+year);
start_day=today.getDay()+1;
fill_table("January", 31);
if (year%4==0)
fill_table("February", 29);
else
fill_table("February", 28);
fill_table("March", 31);
fill_table("April", 30);
fill_table("May", 31);
fill_table("June", 30);

```

```

fill_table("July", 31);
fill_table("August", 31);
fill_table("September", 30);
fill_table("October", 31);
fill_table("November", 30);
fill_table("December", 31);
</script>
</head>
</html>

```

Program 10: Write JavaScript to validate the following fields of the Registration page.

- 1. First Name (Name should contain alphabets and the length should not be less than 6 characters).**
- 2. Password (Password should not be less than 6 characters length).**
- 3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)**
- 4. Mobile Number (Phone number should contain 10 digits only).**
- 5. Last Name and Address (should not be Empty).**

```

<html>
<head><title>Program 8-Registration Form Validation</title></head>
<body bgcolor="#E4F0F8">
<script type='text/javascript'>
function formValidator()
{
// Make quick references to our fields
var firstname = document.getElementById('firstname');
var lastname = document.getElementById('lastname');
var email = document.getElementById('email');
var pass = document.getElementById('pass');
var addr = document.getElementById('addr');
var mobileno = document.getElementById('mobileno');
// Check each input in the order that it appears in the form!
if(notEmpty(firstname, "can not be null")){

if(isAlphabet(firstname, "Please enter only letters for your Firstname")){
if(lengthRestriction(firstname, 6)){
if(isAlphabet(lastname, "Please enter only letters for your Lastname")){
if(emailValidator(email, "Please enter a valid email address")){
if(lengthRestriction(pass, 6)){
if(isAlphanumeric(pass, "please enter Numbers and Letters Only for password")){
if(notEmpty(addr, "please enter the address")){

```

```

if(isNumeric(mobileno, "Please enter a valid mobileno")){
if(lengthRestriction1(mobileno, 10 , 10)){
return true;
} } }
}
}
}
} } }
return false;
}
function notEmpty(elem, helperMsg){

if(elem.value.length == 0){
alert(helperMsg);
elem.focus(); // set the focus to this input
return false;
}
return true;
}
function isNumeric(elem, helperMsg){

var numericExpression = /^[0-9]+$/;
if(elem.value.match(numericExpression)){
return true;
}else{
alert(helperMsg);
elem.focus();
return false;
}
}
function isAlphabet(elem, helperMsg){
var alphaExp = /^[a-zA-Z]+$/;
if(elem.value.match(alphaExp)){
return true;
}else{
alert(helperMsg);
elem.focus();
return false;
}
}
function isAlphanumeric(elem, helperMsg){
var alphaExp = /^[0-9a-zA-Z]+$/;
if(elem.value.match(alphaExp)){
return true;
}else{
alert(helperMsg);
elem.focus();
return false;
}
}
}
}
function lengthRestriction(elem, min){
var uInput = elem.value;
if(uInput.length >= min){

```

[illegible]


```
<input type='Submit' value='submit' />  
<input type='Reset' value='reset' />  
</form>  
</body>  
</html>
```