

HTML CODE FOR SCIENTIFIC CALCULATOR

```
<head>
  <script language="javascript"></script>
</head>
<form name="sci-calc">
  <table class="calculator" cellspacing="0" cellpadding="1">
    <tr>
      <td colspan="5"><input id="display" name="display" value="0" size="28" maxlength="25"></td>
    </tr>
    <tr>
      <td><input type="button" class="btnTop" name="btnTop" value="C" onclick="this.form.display.value= 0 "></td>
      <td><input type="button" class="btnTop" name="btnTop" value="--" onclick="deleteChar(this.form.display)"></td>
      <td><input type="button" class="btnTop" name="btnTop" value="=" onclick="if(checkNum(this.form.display.value)) {
compute(this.form) }"></td>
      <td><input
        type="button"
        class="btnOpps"
        name="btnOpps"
        value="&#960;"
        onclick="addChar(this.form.display,'3.14159265359')"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="%" onclick="percent(this.form.display)"></td>
    </tr>
    <tr>
      <td><input type="button" class="btnNum" name="btnNum" value="7" onclick="addChar(this.form.display, '7')"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="8" onclick="addChar(this.form.display, '8')"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="9" onclick="addChar(this.form.display, '9')"></td>
      <td><input type="button" class="btnOpps" name="btnOpps" value="x&#94;" onclick="if(checkNum(this.form.display.value))
{ exp(this.form) }"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="/" onclick="addChar(this.form.display, '/')"></td>
    </tr>
    <tr>
      <td><input type="button" class="btnNum" name="btnNum" value="4" onclick="addChar(this.form.display, '4')"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="5" onclick="addChar(this.form.display, '5')"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="6" onclick="addChar(this.form.display, '6')"></td>
      <td><input type="button" class="btnOpps" name="btnOpps" value="ln" onclick="if(checkNum(this.form.display.value)) {
ln(this.form) }"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="*" onclick="addChar(this.form.display, '*')"></td>
    </tr>
    <tr>
      <td><input type="button" class="btnNum" name="btnNum" value="1" onclick="addChar(this.form.display, '1')"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="2" onclick="addChar(this.form.display, '2')"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="3" onclick="addChar(this.form.display, '3')"></td>
      <td><input type="button" class="btnOpps" name="btnOpps" value="&radic;" onclick="if(checkNum(this.form.display.value))
{ sqrt(this.form) }"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="-" onclick="addChar(this.form.display, '-')"></td>
    </tr>
    <tr>
      <td><input type="button" class="btnMath" name="btnMath" value="&#177" onclick="changeSign(this.form.display)"></td>
      <td><input type="button" class="btnNum" name="btnNum" value="0" onclick="addChar(this.form.display, '0')"></td>
      <td><input
        type="button"
        class="btnMath"
        name="btnMath"
        value="&#46;"
        onclick="addChar(this.form.display,
'&#46;')"></td>
      <td><input type="button" class="btnOpps" name="btnOpps" value="x&#50;" onclick="if(checkNum(this.form.display.value))
{ square(this.form) }"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="+" onclick="addChar(this.form.display, '+')"></td>
    </tr>
    <tr>
      <td><input type="button" class="btnMath" name="btnMath" value="(" onclick="addChar(this.form.display, '(')"></td>
      <td><input type="button" class="btnMath" name="btnMath" value=")" onclick="addChar(this.form.display, ')")"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="cos" onclick="if(checkNum(this.form.display.value)) {
cos(this.form) }"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="sin" onclick="if(checkNum(this.form.display.value)) {
sin(this.form) }"></td>
      <td><input type="button" class="btnMath" name="btnMath" value="tan" onclick="if(checkNum(this.form.display.value)) {
tan(this.form) }"></td>
    </tr>
  </table>
</form>
```

CSS CODE

```
* {
padding: 0;
margin: 5px;
text-align: center;
}
body {
background-color:blue;
}
.calculator {
width: 350px;
height: 320px;
background-color: #c0c0c0;
box-shadow: 0px 0px 0px 10px #666;
border: 5px solid black;
border-radius: 10px;
}
#display {
width: 320px;
height: 40px;
text-align: right;
background-color: black;
border: 3px solid white;
font-size: 18px;
left: 2px;
top: 2px;
color: #7fff00;
}
.btnTop{
color: white;
background-color: #6f6f6f;
font-size: 14px;
margin: auto;
width: 50px;
height: 25px;
}
.btnNum {
color: white;
background-color: black;
font-size: 14px;
margin: auto;
width: 50px;
height: 25px;
}
.btnMath {
color: white;
background-color: #ff4561;
font-size: 14px;
margin: auto;
width: 50px;
height: 25px;
}
.btnOpps {
color: white;
background-color: #ff9933;
font-size: 14px;
margin: auto;
width: 50px;
height: 25px;
}
```

JAVA SCRIPT

```
function addChar(input, character) {
    if(input.value == null || input.value == "0")
        input.value = character
    else
        input.value += character
}

function cos(form) {
    form.display.value = Math.cos(form.display.value);
}

function sin(form) {
    form.display.value = Math.sin(form.display.value);
}

function tan(form) {
    form.display.value = Math.tan(form.display.value);
}

function sqrt(form) {
    form.display.value = Math.sqrt(form.display.value);
}

function ln(form) {
    form.display.value = Math.log(form.display.value);
}

function exp(form) {
    form.display.value = Math.exp(form.display.value);
}

function deleteChar(input) {
    input.value = input.value.substring(0, input.value.length - 1)
}

var val = 0.0;
function percent(input) {
    val = input.value;
    input.value = input.value + "%";
}

function changeSign(input) {
    if(input.value.substring(0, 1) == "-")
        input.value = input.value.substring(1, input.value.length)
    else
        input.value = "-" + input.value
}

function compute(form) {
    //if (val !== 0.0) {
    //    var percent = form.display.value;
    //    percent = percent.substring(percent.indexOf("%")+1);
    //    form.display.value = parseFloat(percent)/100 * val;
    //val = 0.0;
    // } else
    form.display.value = eval(form.display.value);
}

function square(form) {
    form.display.value = eval(form.display.value) * eval(form.display.value)
}

function checkNum(str) {
    for (var i = 0; i < str.length; i++) {
        var ch = str.charAt(i);
        if (ch < "0" || ch > "9") {
            if (ch != "/" && ch != "*" && ch != "+" && ch != "-" && ch != "."
                && ch != "(" && ch != ")" && ch != "%") {
                alert("invalid entry!")
                return false
            }
        }
    }
    return true
}
```