6. Write a javascript program to create calculator

Code:

index.html:

```html
<!DOCTYPE html>
<html lang="en" dir="ltr">

<head>
<meta charset="utf-8">
<title>Simple Calculator using HTML, CSS and JavaScript</title>
<link rel="stylesheet" href="styles.css">
</head>

<body>

<table class="calculator" >
<tr>
<td colspan="3"> <input class="display-box" type="text" id="result" disabled /> </td>

<!-- clearScreen() function clears all the values -->
<td> <input type="button" value="C" onclick="clearScreen()" id="btn" /> </td>
</tr>
<tr>
<!-- display() function displays the value of clicked button -->
<td> <input type="button" value="1" onclick="display('1')" /> </td>
<td> <input type="button" value="2" onclick="display('2')" /> </td>
<td> <input type="button" value="3" onclick="display('3')" /> </td>
<td> <input type="button" value="/" onclick="display('/')" /> </td>
</tr>
<tr>
<td> <input type="button" value="4" onclick="display('4')" /> </td>
<td> <input type="button" value="5" onclick="display('5')" /> </td>
<td> <input type="button" value="6" onclick="display('6')" /> </td>
<td> <input type="button" value="-" onclick="display('-')" /> </td>
</tr>
<tr>
<td> <input type="button" value="7" onclick="display('7')" /> </td>
<td> <input type="button" value="8" onclick="display('8')" /> </td>
<td> <input type="button" value="9" onclick="display('9')" /> </td>
<td> <input type="button" value="+" onclick="display('+')" /> </td>
</tr>
<tr>
<td> <input type="button" value="." onclick="display('.')" /> </td>
<td> <input type="button" value="0" onclick="display('0')" /> </td>

<!-- calculate() function evaluates the mathematical expression -->
<td> <input type="button" value="=" onclick="calculate()" id="btn" /> </td>
<td> <input type="button" value="*" onclick="display('*')" /> </td>
```

```
</tr>
</table>

<script type="text/javascript" src="script.js"></script>

</body>

</html>
```

Style.css:

```css
.calculator {
padding: 10px;
border-radius: 1em;
height: 380px;
width: 400px;
margin: auto;
background-color: #191b28;
box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0, 0.23) 0px 6px 6px;
}

.display-box {
font-family: 'Orbitron', sans-serif;
background-color: #dcdbe1;
border: solid black 0.5px;
color: black;
border-radius: 5px;
width: 100%;
height: 65%;
}

#btn {
background-color: #fb0066;
}

input[type=button] {
font-family: 'Orbitron', sans-serif;
background-color: #acafb5;
color: white;
border: solid black 0.5px;
width: 100%;
border-radius: 5px;
height: 70%;
outline: none;
}

input:active[type=button] {
background: #e5e5e5;
```
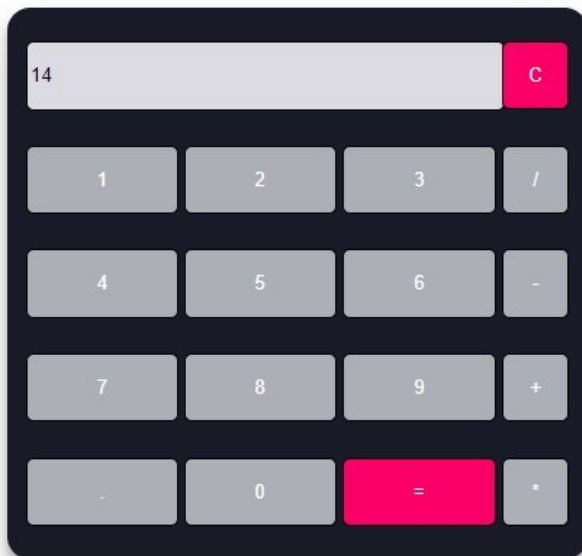
```
-webkit-box-shadow: inset 0px 0px 5px #c1c1c1;
-moz-box-shadow: inset 0px 0px 5px #c1c1c1;
box-shadow: inset 0px 0px 5px #c1c1c1;
}
```

Script.js:

```
/ This function clear all the values
function clearScreen() {
document.getElementById("result").value = "";
}

// This function display values
function display(value) {
document.getElementById("result").value += value;
}

// This function evaluates the expression and returns result
function calculate() {
var p = document.getElementById("result").value;
var q = eval(p);
document.getElementById("result").value = q;
}
```

Output:

7. Write a JavaScript program to find the area of a triangle where lengths of the three ofits sides and display the outputs in popup windows

Code:

```html
<!DOCTYPE HTML>
<html>
<head>
        <meta http-equiv="Content-Type"
                content="text/html; charset=utf-8">
        <title>
                JavaScript function to find
                the area of a triangle
        </title>
        <script type="text/javascript">
                function Area() {
                        var side1 = parseInt(document
                                .getElementById("side1").value);

                        var side2 = parseInt(document
                                .getElementById("side2").value);

                        var side3 = parseInt(document
                                .getElementById("side3").value);

                        console.log(typeof(side1));
                        var s = (side1 + side2 + side3) / 2;

                        var area = Math.sqrt(s * ((s - side1)
                                        * (s - side2) * (s - side3)));

                        document.getElementById("display").innerHTML = area;

                        alert("Area of Triangle:"+area);
                }
</script>
</head>

<body style="text-align: center;">


        <h4>
                The area of a triangle
        </h4>

        <label for="side1">
                Enter the value of side 1:
        </label>

        <input type="number" id="side1"
                placeholder="Enter value of side 1">
```

```
<br><br>

<label for="side2">
        Enter the value of side 2:
</label>

<input type="number" id="side2"
        placeholder="Enter value of side 2">
<br><br>

<label for="side3">
        Enter the value of side 3:
</label>

<input type="number" id="side3"
        placeholder="Enter value of side 2">
<br><br>

<button onclick="Area()">Click Here!</button>

<p>
        Area of Triangle: <span id="display"></span>
</p>
</body>
</html>
```

Output:

The area of a triangle

Enter the value of side 1: [6]

Enter the value of side 2: [3]

Enter the value of side 3: [8]

[Click Here!]

Area of Triangle: 7.644442425710328