

# LEVEL 1

## TASK 3

### CALCULATOR

#### Code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>JavaScript Calculator</title>
```

```
    <script src="https://cdnjs.cloudflare.com/ajax/libs/mathjs/10.6.4/math.js"
```

```
        integrity="sha512-
```

```
BbVEDjbqdN3Eow8+empLMrJlxXRj5nEitiCAK5A1pUr66+jLVejo3PmjIaucR  
njlB0P9R3rBU3g5jXc8ti+fQ=="
```

```
        crossorigin="anonymous" referrerpolicy="no-referrer"></script>
```

```
    <script
```

```
src="https://cdnjs.cloudflare.com/ajax/libs/mathjs/10.6.4/math.min.js"
```

```
        integrity="sha512-
```

```
iphNRh6dPbeuPGIrQbCdbBF/qcqadKWLa35YPVfMZMHBSI6PLJh1om2xCT  
WhpVpmUyb4IvVS9iYnnYMkleVXLA=="
```

```
        crossorigin="anonymous" referrerpolicy="no-referrer"></script>
```

```
<!-- For styling -->
```

```
<style>
```

```
    table {
```

```
        border: 1px solid black;
```

```
        margin-left: auto;
```

```
        margin-right: auto;
```

```
    }
```

```

        input[type="button"] {
            width: 100%;
            padding: 20px 40px;
            background-color: yellow;
            color: black;
            font-size: 24px;
            font-weight: bold;
            border: none;
            border-radius: 100%;
        }

        input[type="text"] {
            padding: 20px 30px;
            font-size: 24px;
            font-weight: bold;
            border: none;
            border-radius: 5px;
            border: 2px solid black;
        }
    </style>
</head>

<body>

    <!-- Use Table to Create Calculator Structure Design -->
    <table id="calcu">

```

```

<tr>
    <td colspan="3"><input type="text" id="result"></td>
    <td style="background-color: gray;"><input type="button"
value="c" onclick="clr()" /> </td>
</tr>
<tr>
    <td style="background-color: darksalmon;"><input
type="button" value="1" onclick="dis('1')"
    onkeydown="myFunction(event)"> </td>
    <td style="background-color: darksalmon;"><input
type="button" value="2" onclick="dis('2')"
    onkeydown="myFunction(event)"> </td>
    <td style="background-color: darksalmon;"><input
type="button" value="3" onclick="dis('3')"
    onkeydown="myFunction(event)"> </td>
    <td style="background-color: teal;"><input type="button"
value="/" onclick="dis('/')"
    onkeydown="myFunction(event)"> </td>
</tr>
<tr>
    <td style="background-color: darksalmon;"><input
type="button" value="4" onclick="dis('4')"
    onkeydown="myFunction(event)"> </td>
    <td style="background-color: darksalmon;"><input
type="button" value="5" onclick="dis('5')"
    onkeydown="myFunction(event)"> </td>
    <td style="background-color: darksalmon;"><input
type="button" value="6" onclick="dis('6')"
    onkeydown="myFunction(event)"> </td>

```

```
<td style="background-color: teal;"><input type="button"
value="" onclick="dis()"
```

```
onkeydown="myFunction(event)"> </td>
```

```
</tr>
```

```
<tr>
```

```
<td style="background-color: darksalmon;"><input
type="button" value="7" onclick="dis('7')"
```

```
onkeydown="myFunction(event)"> </td>
```

```
<td style="background-color: darksalmon;"><input
type="button" value="8" onclick="dis('8')"
```

```
onkeydown="myFunction(event)"> </td>
```

```
<td style="background-color: darksalmon;"><input
type="button" value="9" onclick="dis('9')"
```

```
onkeydown="myFunction(event)"> </td>
```

```
<td style="background-color: teal;"><input type="button"
value="-" onclick="dis('-)"
```

```
onkeydown="myFunction(event)"> </td>
```

```
</tr>
```

```
<tr>
```

```
<td><input type="button" value="." onclick="dis('.')"
onkeydown="myFunction(event)"> </td>
```

```
<td style="background-color: darksalmon;"><input
type="button" value="0" onclick="dis('0')"
```

```
onkeydown="myFunction(event)"> </td>
```

```
<!-- solve function call function solve to evaluate value -->
```

```
<td><input type="button" value="=" onclick="solve()"> </td>
```

```
<td style="background-color: teal;"><input type="button"
value="+" onclick="dis('+)"
```

```

                                onkeydown="myFunction(event)"> </td>

</tr>

</table>

<script>

    // Function that display value
    function dis(val) {
        document.getElementById("result").value += val
    }

    function myFunction(event) {
        if (event.key == '0' || event.key == '1'
            || event.key == '2' || event.key == '3'
            || event.key == '4' || event.key == '5'
            || event.key == '6' || event.key == '7'
            || event.key == '8' || event.key == '9'
            || event.key == '+' || event.key == '-'
            || event.key == '*' || event.key == '/')
            document.getElementById("result").value += event.key;
        }

    var cal = document.getElementById("calcu");
    cal.onkeyup = function (event) {
        if (event.keyCode === 13) {
            console.log("Enter");
            let x = document.getElementById("result").value

```

```
        console.log(x);
        solve();
    }
}

// Function that evaluates the digit and return result
function solve() {
    let x = document.getElementById("result").value
    let y = math.evaluate(x)
    document.getElementById("result").value = y
}

// Function that clear the display
function clr() {
    document.getElementById("result").value = ""
}

</script>

</body>

</html>
```