

PRACTICAL 4

Aim :

Design a webpage that implements simple calculator using JavaScript.

Code :

aft4.html file

```
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
</script>
<link rel="stylesheet" type="text/css" href="calc.css">
<script type="text/javascript" src="new.js"></script>
<div align="center" id="calci">
<div id="head">Calculator</div>
<input type="text" class="text" readonly>
<div class="buttons">
<div class="l1">
<button class="btn" value="AC" id="AC">AC</button>
<button class="btn" value="CE" id="CE">CE</button>
<button class="btn" value="%" id="perc">%</button>
<button class="btn" value="/" id="divi">/</button>
</div><br>
<div class="l2">
<button class="btn" value="7" id="7">7</button>
<button class="btn" value="8" id="8">8</button>
<button class="btn" value="9" id="9">9</button>
<button class="btn" value="*" id="mult">*</button>
</div><br>
<div class="l3">
<button class="btn" value="4" id="4">4</button>
<button class="btn" value="5" id="5">5</button>
<button class="btn" value="6" id="6">6</button>
<button class="btn" value="-" id="subt">-</button>
</div><br>
<div class="l4">
<button class="btn" value="1" id="1">1</button>
<button class="btn" value="2" id="2">2</button>
<button class="btn" value="3" id="3">3</button>
<button class="btn" value="+" id="add">+</button>
</div><br>
<div class="l5">
<button class="btn" value="0" id="0">0</button>
<button class="btn" value="." id="dec">.</button>
<button class="btn" value="=">=</button>
</div><br>
</div>
</div>
</html>
```

Code :

calc.css file

```
@import url(https://fonts.googleapis.com/css?family=Raleway);
html { background-color : #0c0fd3c9; }
#calci {
    background-color : #6af348;
    margin : 6vw auto 10vw auto;
    border-radius : 1.5vw;
    min-width : 30vw;
    max-width : 50vw;
    min-height : 51vw;
    max-height : 270vw;
    box-shadow : 3vw 3vw black; }
#head {
    text-shadow : 0.3vw 0.4vw #000000;
    font-size : 4.6vw;
    font-family : 'Raleway', sans-serif;
    color : white;
    padding : 3vw 0vw 2vw 0vw; }
.textbox {
    width : 20vw;
    height : 7vw;
    background-color : #010311;
    border-radius : 0.2vw;
    border-color : black;
    box-shadow : 0.2vw 0.2vw black;
    text-align : right;
    font-size : 4vw;
    color : white; }
.buttons { margin-top : 2vw; }
.btn {
    background-color : #0c0fd3c9;
    margin : 0.3vw 0.3vw 0.3vw 0.3vw;
    border-radius : 0.3vw;
    border-color : black;
    font-family : 'Raleway', serif;
    padding : 1vw 1vw 1vw 1vw;
    font-size : 3vw;
    min-width : 5vw;
    color : white;
    box-shadow : 0.2vw 0.2vw #000000; }
.btn:hover { transform : translateY(-0.4vw); }
```

Code :

new.js file

```
var ans = "";
var clear = false;
var calc = "";
$(function()
{
    $("button").click(function()
    {
        var text = $(this).attr("value");
        if(parseInt(text, 10) == text || text === "." || text === "/" ||
        text === "*" || text === "-" || text === "+" || text === "%")
        {
            if(clear === false)
            {
                calc += text;
                $(".textbox").val(calc);
            }
            else
            {
                calc = text;
                $(".textbox").val(calc);
                clear = false;
            }
        }
        if(text === "AC")
        {
            calc = "";
            $(".textbox").val("");
        }
        else if(text === "CE")
        {
            calc = calc.slice(0, -1);
            $(".textbox").val(calc);
        }
        else if(text === "=")
        {
            ans = eval(calc);
            $(".textbox").val(ans);
            clear = true;
        }
    }
});
});
```

Screen Shots :

