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Assignment no :-4

Title:- Implement an application in Java Script using following:

- a) Design UI of application using HTML, CSS etc.
- b) Include Java script validation.
- c) Use of prompt and alert window using Java Script.

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//HTML Code:-
<!doctype html>
<html>
<head>
  <title>Calculator</title>
  k rel="stylesheet" type="text/css" href="style.css">
  <script type="text/javascript">
    function validate() {
       const x = document.calc.txt.value;
       if (x == "") {
         alert("Please enter an expression");
       } else {
         document.calc.txt.value = eval(x);
     }
  </script>
</head>
<body>
<div class="container">
  <form class="calculator" name="calc">
    <input type="text" readonly class="value" name="txt">
    <span class="num clear" onclick="calc.txt.value = "">C</span>
    <span class="num" onclick="document.calc.txt.value += '/"'>&divide;</span>
    <span class="num" onclick="calc.txt.value += '*'">x</span>
    <span class="num" onclick="calc.txt.value += '7'">7</span>
    <span class="num" onclick="calc.txt.value += '8"">8</span>
    <span class="num" onclick="calc.txt.value += '9'">9</span>
    <span class="num" onclick="calc.txt.value += '-'">-</span>
    <span class="num" onclick="calc.txt.value += '4'">4</span>
    <span class="num" onclick="calc.txt.value += '5'">5</span>
    <span class="num" onclick="calc.txt.value += '6"">6</span>
    <span class="num plus" onclick="calc.txt.value += '+'">+</span>
    <span class="num" onclick="calc.txt.value += '1'">1</span>
    <span class="num" onclick="calc.txt.value += '2"">2</span>
    <span class="num" onclick="calc.txt.value += '3"">3</span>
    <span class="num" onclick="calc.txt.value += '0'">0</span>
    <span class="num" onclick="calc.txt.value += '00'">00</span>
    <span class="num" onclick="calc.txt.value += '."'>.</span>
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<span class="num" onclick="validate()">=</span>
  </form>
  </form>
</div>
<script type="text/javascript" src="vanilla-tilt.js"></script>
<script type="text/javascript">
  VanillaTilt.init(document.querySelector(".container"), {
     max: 25,
     speed: 400,
     glare: false,
     maxGlare: 0.1,
     scale: 1.10
  });
</script>
</body>
</html>
//CSS code
@import url('http://fonts.googleapis.com/css?family=Open+Sans:400,300,600,700');
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Quicksand', sans-serif;
body {
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh;
  background: #020017;
body::before{
  content: ";
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background: linear-gradient(#e91e63, #ffc107);
  clip-path: circle(22% at 30% 20%);
body::after{
  content: ";
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
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height: 100%;
  background: linear-gradient(white, #da00ff);
  clip-path: circle(20% at 70% 90%);
}
.container{
  position: relative;
  background: rgba(241, 237, 237, 0.05);
  border-radius: 20px;
  overflow: hidden:
  z-index: 10;
  backdrop-filter: blur(45px);
  border-top: 1px solid rgba(255,255,255,0.2);
  border-left: 1px solid rgba(255,255,255,0.2);
}
.container .calculator{
  position: relative;
  display: grid;
.container .calculator .value {
  grid-column: span 4;
  height: 140px;
  width: 300px;
  textalign:center;
  border: none;
  outline: none;
  padding: 10px;
  font-size: 30px;
  background: transparent;
  color: #ffff;
  border-bottom:1px solid rgba(255,255,255,0.05);
  border-right:1px solid rgba(255,255,255,0.05);
.container .calculator span{
  display: grid;
  justify-content: center;
  align-items: center;
  width: 75px;
  height: 75px;
  color: #ffff;
  font-weight: 400;
  cursor: pointer;
  font-size: 20px;
  user-select: none;
  border-bottom: 1px solid rgba(255,255,255,0.05);
  border-right: 1px solid rgba(255,255,255,0.05);
  transition: 0.5s;
.container .calculator span:hover{
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transition: 0s;
background: rgba(255,255,255,0.5);
}
.container .calculator span:active {

background: #7a0ea4;
color: #1a0202;
font-size: 24px;
font-weight: 500;
}
.container .calculator .clear{
   grid-column: span 2;
   width: 150px;
}
.container .calculator .plus{
   grid-row: span 2;
   height: 150px;
}
```

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Output:-





