

Date : 9/1/2024

Assignment: make one simple calculator(+,-,*,/,=) using html,css,js and add styling part also.

Answer:

Index.html File

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet" href="style.css"/>
</head>
<body>
  <div class="container">

    <input type="text" class="display"/>

    <div class="buttons">
      <button class="operator" data-value="AC">AC</button>
      <button class="operator" data-value="DEL">DE</button>
      <button class="operator" data-value="%">%</button>
      <button class="operator" data-value="/">/</button>

      <button data-value="7">7</button>
      <button data-value="8">8</button>
      <button data-value="9">9</button>
      <button class="operator" data-value=""></button>

      <button data-value="4">4</button>
      <button data-value="5">5</button>
      <button data-value="6">6</button>
      <button class="operator" data-value="-">-</button>

      <button data-value="1">1</button>
      <button data-value="2">2</button>
      <button data-value="3">3</button>
      <button class="operator" data-value="+">+</button>

      <button data-value="0">0</button>
      <button data-value="00">00</button>
      <button data-value=".">.</button>
      <button class="operator" data-value="=">=</button>
    </div>

  </div><script src="scripts1.js"></script> </body></html>
```

Style.css File

```
*{
  margin:0;
  padding: 0;
  font-family: 'popping',sans-serif;
  box-sizing: border-box;
}
body{
  width: 100%;
  height:100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  background: #768b9e;
}
.container{
  position: relative;
  max-width: 300px;
  width: 100%;
  border-radius: 12px;
  padding: 10px 20px 20px;
  background: #fff;
  box-shadow: 0 5px 10px rgba(0, 0, 0, 0.05);
}
.display{
  height: 80px;
  width: 100%;
  outline: none;
  border: none;
  text-align: right;
  margin-bottom: 10px;
  font-size: 25px;
  color: #000e1a;
  pointer-events: none;
}
.buttons{
  display: grid;
  grid-area: 15px;
  grid-template-columns: repeat(4, 1fr);
}
.buttons button{
  padding: 12px 10px;
  border-radius: 6px;
  border: none;
  font-size: 20px;
  cursor: pointer;
  background-color:#fff;
```

```

}
.buttons button:active{
  transform: scale(0.99);
}
.operator{
  color: #2f9fff;
}

```

Script.js File

```

const display = document.querySelector(".display");
const buttons = document.querySelectorAll("button");
const specialchars = ["%", "*", "/", "+", "=", "-"]
let output="";

const calculate =(btnvalue) => {
  if (btnvalue === "=" && btnvalue !== "") {
    output =eval(output.replace("%","/100"));

  }else if (btnvalue === "AC") {
    output ="";
  }else if (btnvalue === "DE") {
    output =output.toString().slice(0,-1);
  }else{
    if(output === "" && specialchars.includes(btnvalue)) return;
    output +=btnvalue
  }
  display.value=output;
}
buttons.forEach((button) =>{
  button.addEventListener("click", e => calculate(e.target.dataset.value))
})

```