Assignment .3

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

e.g., Design and implement a simple calculator using Java Script for operations like addition, multiplication, subtraction, division, square of number etc.

- a) Design calculator interface like text field for input and output, buttons for numbers and operators etc.
- b) Validate input values
- c) Prompt/alerts for invalid values etc

CODE:

Directory structure:

Home.html

```
<!DOCTYP
E html>
           <html lang="en">
           <head>
               <meta charset="UTF-8">
               <meta http-equiv="X-UA-Compatible" content="IE=edge">
               <meta name="viewport" content="width=device-width, initial-scale=1.0">
               <title>Calculator</title>
               k
           href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.cs
           s" rel="stylesheet" integrity="sha384-
           1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
           crossorigin="anonymous">
               <link rel="stylesheet" href="style.css" type="text/css">
           <script
           src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.m
           in.js" integrity="sha384-
```

```
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+I1RH9sENBO0LRn5q+8nbTov4+1p"\\
crossorigin="anonymous"></script>
</head>
<body>
   <h1 style="text-align: center;">CALCULATOR</h1>
<hr>
   <div class="container">
   <div class="outer1 text-center">
       <input type="text" id="result">
             <input class="button" type="button" value="C"</pre>
onclick="clearScreen()" readonly>
              <input type="button" value="1" onclick="d('1')" />
 <input type="button" value="2" onclick="d('2')" />
 <input type="button" value="3" onclick="d('3')" />
 <input type="button" value="+" onclick="d('+')" />
 <input type="button" value="4" onclick="d('4')" />
 <input type="button" value="5" onclick="d('5')" />
 <input type="button" value="6" onclick="d('6')" />
 <input type="button" value="-" onclick="d('-')" />
```

```
 <input type="button" value="7" onclick="d('7')" />
 <input type="button" value="8" onclick="d('8')" />
 <input type="button" value="9" onclick="d('9')" />
 <input type="button" value="/" onclick="d('/')" />
 <input type="button" value="=" onclick="solve()" />
 <input type="button" value="0" onclick="d('0')" />
 <input type="button" value="." onclick="d('.')" />
 <input type="button" value="*" onclick="d('*')" />
</div>
</div>
<body>
   <h3 style="text-align: center;">technology used : HTML/CSS/JS</h3>
<script type="text/javascript" src="script.js"> </script>
</body>
</html>
```

style.css

```
body,html{
                 margin: 25px;
             }
             input[type="button"]{
                 border: none;
                 width: 100%;
                 outline: none;
                 padding: 20px;
                 border-radius: 15px;
                 background-color: #b7ceec;
             }
             input[type="text"]{
                 padding-left: 10px;
                 background-color: #f7aaf6;
                 box-shadow: 6px 5px 6px 2px gray;
             }
             .outer1{
                 display: flex;
                 justify-content: center;
             }
             .container{
                 padding: 5px;
                 margin: 5px;
                 /* border: 2px solid black; */
             }
```

Script.js

```
function
d(val){
               document.getElementById("result").value+=val;
           }
           function clearScreen(){
               document.getElementById("result").value="";
           }
           function solve(){
               var x=document.getElementById("result").value;
               let y=eval(x);
               if(isNaN(result)){
                   document.getElementById("result").value=y;
               }
               else{
                   alert(" please enter correct data !!!")
               }
           }
```

OUTPUT:

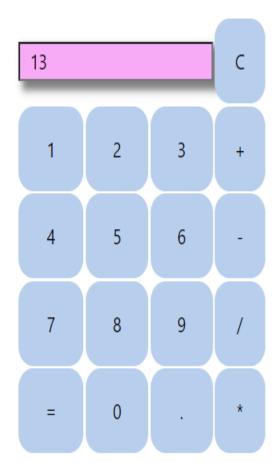


CALCULATOR



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