

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

```
<!DOCTYPE
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>

  <link
href="https://cdn.jsdelivrivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.cs
s" rel="stylesheet" integrity="sha384-
1BmE4kWbQ78iYhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
  <link rel="stylesheet" href="style.css" type="text/css">

<script
src="https://cdn.jsdelivrivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.m
in.js" integrity="sha384-
```

```
ka7Sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+I1RH9sENB00LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>
```

```
</head>
```

```
<body>
```

```
    <h1 style="text-align: center;">CALCULATOR</h1>
```

```
<hr>
```

```
    <div class="container">
```

```
        <div class="outer1 text-center">
```

```
            <table class="tb">
```

```
                <tr>
```

```
                    <td colspan="3"> <input type="text" id="result"></td>
```

```
                    <td>
```

```
                        <input class="button" type="button" value="C"
onclick="clearScreen()" readonly>
```

```
                    </td>
```

```
                </tr>
```

```
                <tr>
```

```
                    <td > <input type="button" value="1" onclick="d('1')" />
```

```
</td>
```

```
                    <td > <input type="button" value="2" onclick="d('2')" />
```

```
</td>
```

```
                    <td > <input type="button" value="3" onclick="d('3')" />
```

```
</td>
```

```
                    <td > <input type="button" value="+" onclick="d('+')" />
```

```
</td>
```

```
                </tr>
```

```
                <tr>
```

```
                    <td > <input type="button" value="4" onclick="d('4')" />
```

```
</td>
```

```
                    <td > <input type="button" value="5" onclick="d('5')" />
```

```
</td>
```

```
                    <td > <input type="button" value="6" onclick="d('6')" />
```

```
</td>
```

```
                    <td > <input type="button" value="-" onclick="d('-')" />
```

```
</td>
```

```

        </tr>

        <tr>
            <td > <input type="button" value="7" onclick="d('7')" />
        </td>
            <td > <input type="button" value="8" onclick="d('8')" />
        </td>
            <td > <input type="button" value="9" onclick="d('9')" />
        </td>
            <td > <input type="button" value="/" onclick="d('/')" />
        </td>

        </tr>

        <tr>
            <td > <input type="button" value="=" onclick="solve()" />
        </td>
            <td > <input type="button" value="0" onclick="d('0')" />
        </td>
            <td > <input type="button" value="." onclick="d('.')" />
        </td>
            <td > <input type="button" value="*" onclick="d('*')" />
        </td>

        </tr>

    </table>

</div>
</div>

<body>
    <h3 style="text-align: center;">technology used : HTML/CSS/JS</h3>
    <hr>
    <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; */

}
```

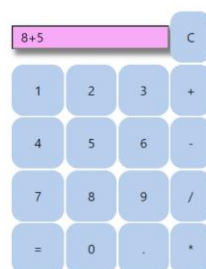
Script.js

```
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:

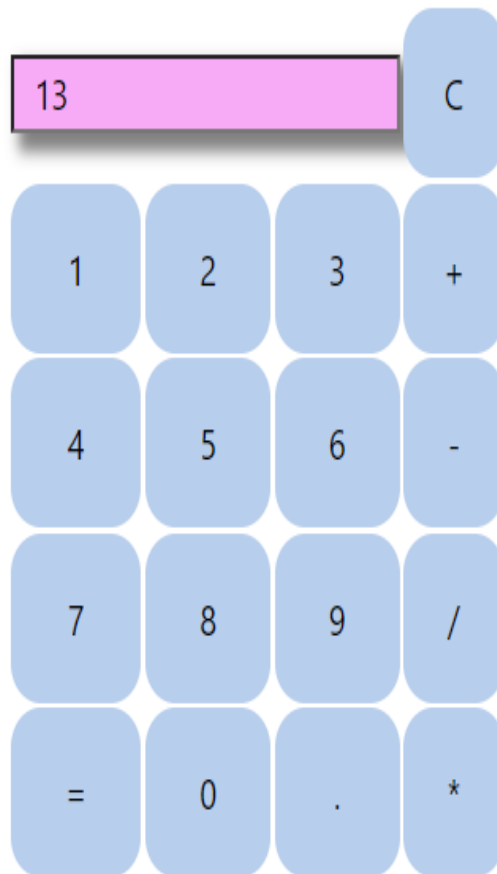


CALCULATOR



technology used : HTML/CSS/JS

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