README.md

Ex.08 Design of a Standard Calculator

Date : 31-10-2023

AIM:

To design a web application for a standard calculator with minimum five operations.

DESIGN STEPS:

Step 1:

Clone the github repository and create Django admin interface.

Step 2:

Change settings.py file to allow request from all hosts.

Step 3:

Use CSS for creating attractive colors.

Step 4:

Write JavaScript program for implementing five different operations.

Step 5:

Validate the HTML and CSS code.

Step 6:

Publish the website in the given URL.

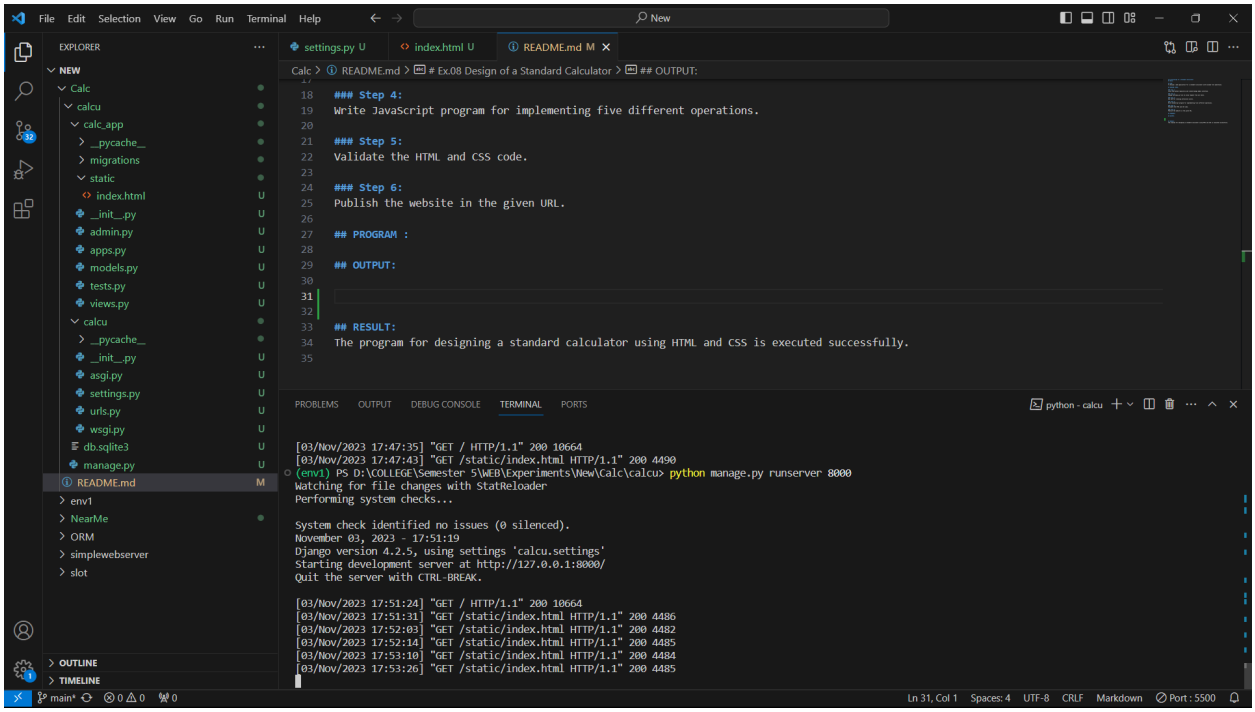
PROGRAM :

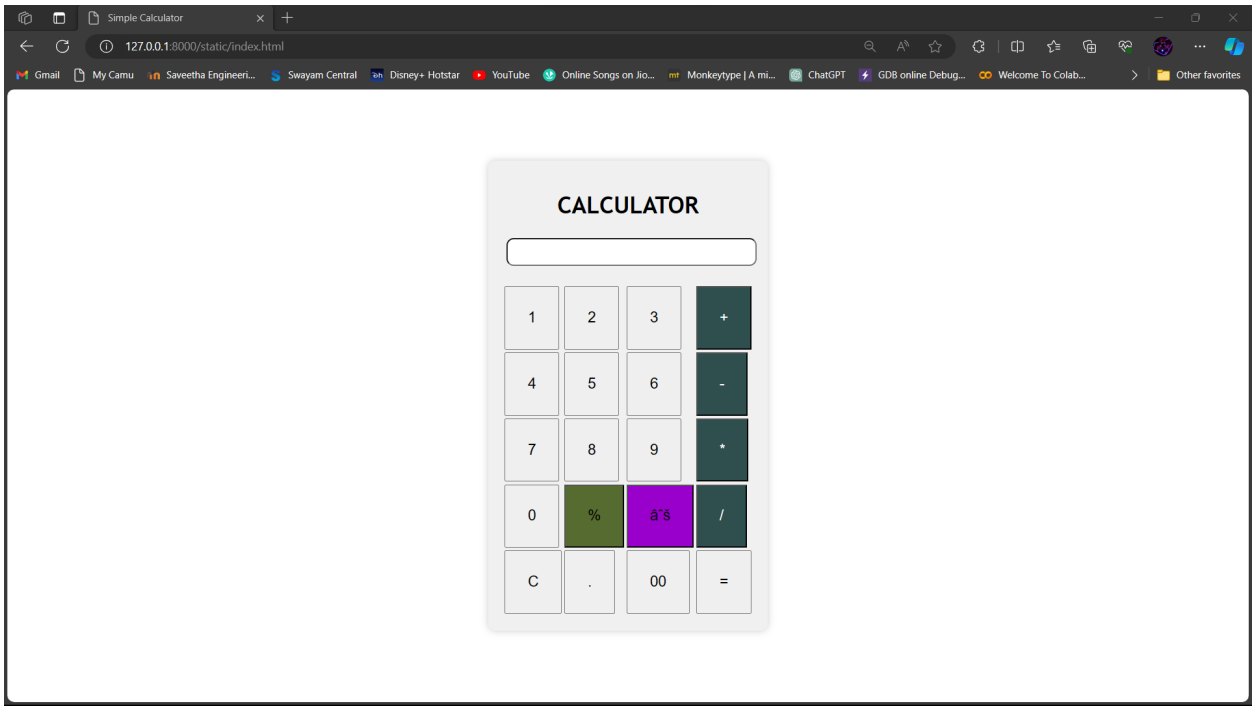
```
<html>
<head>
    <title>Simple Calculator</title>
    <style>
        body {
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }
        h1{
            text-align: center;
            font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lu
        }

        #calculator-container {
            background-color: #f0f0f0;
            padding: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
        }

        input[type="text"] {
            width: 100%;
            padding: 10px;
            margin: 5px;
            color:black;
            border-radius: 10px;
        }

        table {
            margin-top: 20px;
```

```
        }

        button {
            padding: 30px;
            font-size: 20px;
        }

        /* Define colors for operators */
        button[data-operator="+"] {
            background-color:darkslategrey;
        }

        button[data-operator="-"] {
            background-color: darkslategrey;
        }

        button[data-operator="*"] {
            background-color: darkslategrey;
        }

        button[data-operator="/"] {
            background-color: darkslategrey;
        }

        button[data-operator="%"] {
            background-color:darkolivegreen;
        }

        button[data-operator="sqrt"] {
            background-color: #9900cc;
        }
    </style>
</head>
<body>
    <div id="calculator-container">
        <h1>CALCULATOR</h1>
        <input type="text" id="display" readonly>
        <table>
            <tr>
                <td><button onclick="appendToDisplay('1')">1</button></td>
                <td><button onclick="appendToDisplay('2')">2</button></td>
                <td><button onclick="appendToDisplay('3')">3</button></td>
                <td><button data-operator="+" onclick="appendToDisplay('+')" style='
            </tr>
            <tr>
                <td><button onclick="appendToDisplay('4')">4</button></td>
                <td><button onclick="appendToDisplay('5')">5</button></td>
                <td><button onclick="appendToDisplay('6')">6</button></td>
                <td><button data-operator="-" onclick="appendToDisplay('-')" style='
            </tr>
            <tr>
                <td><button onclick="appendToDisplay('7')">7</button></td>
                <td><button onclick="appendToDisplay('8')">8</button></td>
                <td><button onclick="appendToDisplay('9')">9</button></td>
```

```
                <td><button data-operator="*" onclick="appendToDisplay('*')" style="
            </tr>
            <tr>
                <td><button onclick="appendToDisplay('0')">0</button></td>
                <td><button data-operator="%" onclick="appendToDisplay('%')">%</butt
                <td><button data-operator="sqrt" onclick="calculateSquareRoot()">√</
                <td><button data-operator="/" onclick="appendToDisplay('/')" style="
            </tr>
            <tr>
                <td><button onclick="clearDisplay()">C</button></td>
                <td><button onclick="appendToDisplay('.')">.</button></td>
                <td><button onclick="appendToDisplay('00')">00</button></td>
                <td><button onclick="calculateResult()">=</button></td>
            </tr>
        </table>
    </div>
    <script>
        function appendToDisplay(value) {
            document.getElementById('display').value += value;
        }

        function clearDisplay() {
            document.getElementById('display').value = '';
        }

        function calculateResult() {
            try {
                document.getElementById('display').value = eval(document.getElementB
            } catch (error) {
                document.getElementById('display').value = 'Error';
            }
        }

        function calculateSquareRoot() {
            const inputValue = document.getElementById('display').value;
            const result = Math.sqrt(parseFloat(inputValue));
            document.getElementById('display').value = result;
        }
    </script>
</body>
</html>
```

OUTPUT:





RESULT:

The program for designing a standard calculator using HTML and CSS is executed successfully.

Releases

No releases published

Create a new release

Packages

No packages published
Publish your first package

Languages

- **Python** 57.2%
- **HTML** 42.8%

Suggested Workflows

Based on your tech stack

Django

Build and Test a Django Project

Configure

SLSA Generic generator

Generate SLSA3 provenance for your existing release workflows

Configure

Python Package using Anaconda

Create and test a Python package on multiple Python versions using Anaconda for package management.

Configure

More workflows

Dismiss suggestions