Apply HTML, CSS and JavaScript to design a simple calculator to perform the following operations: sum,product, difference, remainder, quotient, power, square-root and square.

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Calculator</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
            /* Adding a gradient background */
            background: linear-gradient(360deg, #70e1f5, #ffd194);
        }
        .calculator {
            background-color: #fff;
            padding: 20px;
            border-radius: 15px;
            box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);
```

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```
    width: 300px;
    text-align: center;
}
input {
    width: 80%;
    padding: 10px;
    margin: 10px 0;
    border-radius: 5px;
    border: 1px solid #ccc;
}
button {
    padding: 10px;
    margin: 5px;
    width: 45%;
    cursor: pointer;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 5px;
    transition: background-color 0.3s, transform 0.2s;
```

Apply HTML, CSS and JavaScript to design a simple calculator to perform the following operations: sum,product, difference, remainder, quotient, power, square-root and square.

```
        }
        button:hover {
            background-color: #45a049;
            transform: scale(1.05);
        }
        #result {
            margin-top: 20px;
            font-size: 20px;
            color: #333;
        }
    </style>
</head>
<body>

    <div class="calculator">
        <h2>Simple Calculator</h2>
        <input type="number" id="num1" placeholder="Enter first number"><br>
        <input type="number" id="num2" placeholder="Enter second number (if needed)"><br>
```

Apply HTML, CSS and JavaScript to design a simple calculator to perform the following operations: sum,product, difference, remainder, quotient, power, square-root and square.

```
        <button onclick="calculate('sum')">Sum</button>
        <button
onclick="calculate('difference')">Difference</button>
        <button onclick="calculate('product')">Product</button>
        <button onclick="calculate('quotient')">Quotient</button>
        <button
onclick="calculate('remainder')">Remainder</button>
        <button onclick="calculate('power')">Power</button>
        <button onclick="calculate('square')">Square</button>
        <button onclick="calculate('sqrt')">Square Root</button>

        <div id="result">Result: </div>
    </div>

    <script>
        function calculate(operation) {
            let num1 =
parseFloat(document.getElementById('num1').value);
            let num2 =
parseFloat(document.getElementById('num2').value);
            let result;
```

Apply HTML, CSS and JavaScript to design a simple calculator to perform the following operations: sum,product, difference, remainder, quotient, power, square-root and square.

```
        switch (operation) {
            case 'sum':
                result = num1 + num2;
                break;
            case 'difference':
                result = num1 - num2;
                break;
            case 'product':
                result = num1 * num2;
                break;
            case 'quotient':
                result = num2 !== 0 ? num1 / num2 : 'Cannot divide
by zero';
                break;
            case 'remainder':
                result = num1 % num2;
                break;
            case 'power':
                result = Math.pow(num1, num2);
```

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```
            break;
        case 'square':
            result = Math.pow(num1, 2);
            break;
        case 'sqrt':
            result = Math.sqrt(num1);
            break;
        default:
            result = 'Invalid operation';
    }

    document.getElementById('result').innerText = 'Result: ' + result;
}
</script>

</body>
</html>
```