

Diandra Lintang Hanintya

1301213072 – IF 45 05

HTML

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>GCD and LCM Calculator</title>
5   <link type="text/css" rel="stylesheet" href="style.css">
6   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
7 </head>
8 <body>
9   <p style="color: #FFF3CF;">Diandra Lintang Hanintya </p>
10  <p style="color: #FFF3CF;">1301213072 - IF 45 05 </p>
11  <center>
12    <div class="main">
13      <div class="title">GCD and LCM Calculator</div>
14      <input type="number" class="form-control" id="num1" placeholder="Number 1">
15      <input type="number" class="form-control" id="num2" placeholder="Number 2">
16      <button id="calculate">Calculate</button>
17      <div class="form-group">
18        <label>GCD:</label>
19        <span id="gcdResult"></span>
20      </div>
21      <div class="form-group">
22        <label>LCM:</label>
23        <span id="lcmResult"></span>
24      </div>
25      <div id="resultMessage"></div>
26    </div>
27  </center>
```

Disini saya script ajax untuk JQuery, konten yang terdapat dalam html ini adalah kalkulator LCD dan GCD

```
1 <script type="text/javascript">
2   $(document).ready(function() {
3       $("#calculate").click(function() {
4           var num1 = parseInt($("#num1").val());
5           var num2 = parseInt($("#num2").val());
6
7           if (isNaN(num1) || isNaN(num2)) {
8               $("#resultMessage").text("Please enter valid numbers.").css("color", "red");
9               $("#gcdResult").text("");
10              $("#lcmResult").text("");
11          } else {
12              // Calculate GCD
13              var gcdResult = gcd(num1, num2);
14              $("#gcdResult").text(gcdResult);
15
16              // Calculate LCM
17              var lcmResult = lcm(num1, num2);
18              $("#lcmResult").text(lcmResult);
19
20              $("#resultMessage").text("Results calculated successfully.").css("color", "green");
21          }
22      });
23
24      function gcd(a, b) {
25          if (b == 0)
26              return a;
27          return gcd(b, a % b);
28      }
29
30      function lcm(a, b) {
31          return (a / gcd(a, b)) * b;
32      }
33  });
34 </script>
```

Ini adalah script JS menggunakan Jquery untuk kalkulator yang saya gunakan, Pada Line dua terdapat DOM manipulation Dimana Ketika tombol calculate ditekan, fungsi calculate akan di jalankan untuk memvalidasi kedua input dan apabila sesuai perhitungan dengan memanggil fungsi gcd dan lcm akan dijalankan



```
1  body {
2      font-family: "Yusei Magic", sans-serif;
3      font-weight: 400;
4      font-style: normal;
5      color: #2E4374;
6      background-color: #637A9F;
7  }
8  .form-group {
9      color: #2E4374;
10 }
11 button {
12     border: none;
13     background: #637A9F;
14     transition: all 300ms;
15     padding: 10px 15px;
16     font-size: 16px;
17     color: #E8C872;
18     border-radius: 5px;
19     margin: 10px auto;
20 }
21 .main {
22     width: 25%;
23     height: 100%;
24     background: #FFF3CF;
25     border-radius: 5px;
26     margin: 250px auto;
27     padding: 10px;
28 }
29 input {
30     width: 100%;
31     padding: 12px 20px;
32     margin: 8px 0;
33     display: inline-block;
34     border: 1px solid #E8C872;
35     border-radius: 4px;
36     box-sizing: border-box;
37 }
38
39 input.form-control {
40     width: 200%;
41 }
```

Output

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GCD and LCM Calculator

15

7

Calculate

GCD: 1
LCM: 105
Results calculated successfully.

GCD and LCM Calculator

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Calculate

GCD:
LCM:

Please enter valid numbers.