

**NATIONAL UNIVERSITY OF MODERN LANGUAGES,  
ISLAMABAD**



**Web Engineering - Lab**

**Lab # 7**

**Submitted By**

**Umer Hassan Khan**

**SP21020**

**Submitted To**

**Ma'am Nabeela Bibi**

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**Task # 01****HTML Code**

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Marks Calculator</title>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <h1 class="heading">Marks Calculator</h1>

  <div class="container">

    <form onsubmit="return false;">

      <label for="sub1">Subject 1:</label>

      <input type="number" name="sub1" id="sub1" class="subjects">

      <br>

      <label for="sub2">Subject 2:</label>

      <input type="number" name="sub2" id="sub2" class="subjects">

      <br>

      <label for="sub3">Subject 3:</label>

      <input type="number" name="sub3" id="sub3" class="subjects">

      <br>

      <label for="result" style="margin-right: 23px;">Result:</label>

      <input type="number" name="result" id="result" class="subjects">

    </form>

    <br>

    <div>

      <button class="buttons" onclick="sum()">Add </button>

      <button class="buttons" onclick="subtract()">Subtract</button>

      <button class="buttons" onclick="multiply()">Multiply </button>
```

```
<button class="buttons" onclick="divide()">Divide </button>
</div>
</div>
<script>
function sum() {
    var a = parseFloat(document.getElementById("sub1").value);
    var b = parseFloat(document.getElementById("sub2").value);
    var c = parseFloat(document.getElementById("sub3").value);
    var finalResult = a + b + c;
    document.getElementById("result").value = finalResult;
}

function subtract() {
    var a = parseFloat(document.getElementById("sub1").value);
    var b = parseFloat(document.getElementById("sub2").value);
    var c = parseFloat(document.getElementById("sub3").value);
    var finalResult = a - b - c;
    document.getElementById("result").value = finalResult;
}

function multiply() {
    var a = parseFloat(document.getElementById("sub1").value);
    var b = parseFloat(document.getElementById("sub2").value);
    var c = parseFloat(document.getElementById("sub3").value);
    var finalResult = a * b * c;
    document.getElementById("result").value = finalResult;
}

function divide() {
    var a = parseFloat(document.getElementById("sub1").value);
    var b = parseFloat(document.getElementById("sub2").value);
    var c = parseFloat(document.getElementById("sub3").value);
```

```
        var finalResult = a / b / c;

        document.getElementById("result").value = finalResult;
    }
</script>
</body>
</html>
```

### CSS Code

```
body {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    background-color: #f2f2f2;
}

.heading{
    display: flex;
    justify-content: center;
    align-items: center;
    background-color: rgb(15, 147, 208);
}

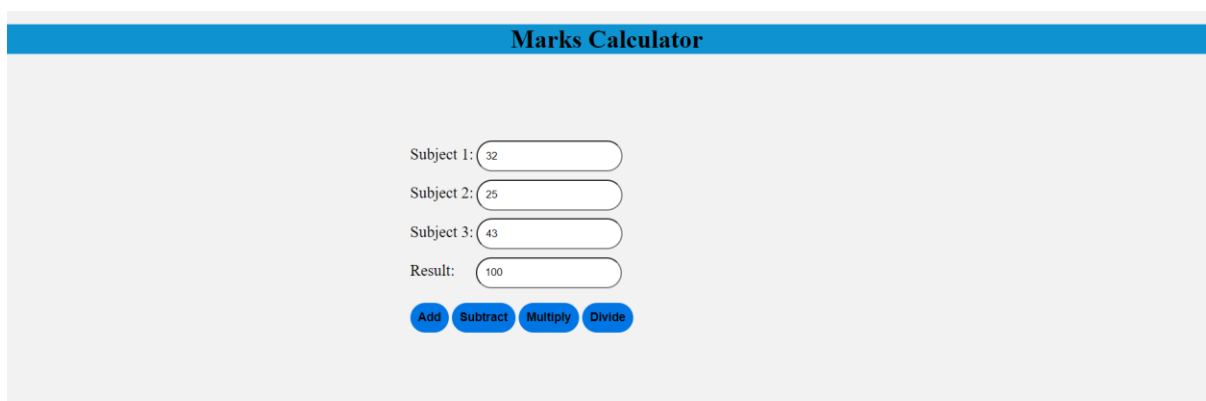
.container{
    width: 500px;
    margin: 100px auto;
}

label{
    font-size: 20px;
}

.subjects{
    margin-top: 10px;
    background-color: rgb(255, 255, 255);
    padding: 10px;
    border-radius: 20px;
}
```

```
.buttons{
    background-color: rgb(0, 118, 229);
    padding: 10px 10px;
    font-weight: bolder;
    border: none;
    border-radius: 20px;
    font-size: 15px;
    cursor: pointer;
}

.buttons:hover{
    background-color: rgb(46, 166, 76);
    cursor: pointer;
    border: 1px solid rgb(46, 166, 76);
}
```



## Task # 2

### Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Calculator</title>

    <style>
```

```
body {  
  background-color: #abd4ef;  
  display: flex;  
  align-items: center;  
  justify-content: center;  
  height: 100vh;  
  margin: 0;  
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
}
```

```
.calculator {  
  margin: 50px auto;  
  padding: 20px;  
  width: 300px;  
  background-color: #ecf0f1;  
  border: 1px solid #bdc3c7;  
  border-radius: 8px;  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
input[type="text"] {  
  width: calc(100% - 10px);  
  margin-bottom: 10px;  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #63e285;  
  font-size: 24px;  
  text-align: right;  
  outline: none;  
}
```

```
table {
```

```
        width: 100%;
    }

    button {
        width: 100%;
        height: 50px;
        background-color: #63e285;
        border: 1px solid #63e285;
        border-radius: 5px;
        font-size: 20px;
        margin: 2px;
        cursor: pointer;
        color: #000000;
        transition: background-color 0.3s ease;
    }

    button:hover {
        background-color: #2980b9;
    }

    td {
        text-align: center;
    }
</style>
</head>
<body>
    <div class="calculator">
        <input type="text" id="result" readonly>
        <table>
            <tr>
                <td><button onclick="clearResult()">C</button></td>
                <td><button onclick="backspace()">←</button></td>
```

```

        <td><button onclick="insert('%')">%</button></td>
        <td><button onclick="insert('/')">/</button></td>
    </tr>
    <tr>
        <td><button onclick="insert('7')">7</button></td>
        <td><button onclick="insert('8')">8</button></td>
        <td><button onclick="insert('9')">9</button></td>
        <td><button onclick="insert('*')">*</button></td>
    </tr>
    <tr>
        <td><button onclick="insert('4')">4</button></td>
        <td><button onclick="insert('5')">5</button></td>
        <td><button onclick="insert('6')">6</button></td>
        <td><button onclick="insert('-')">-</button></td>
    </tr>
    <tr>
        <td><button onclick="insert('1')">1</button></td>
        <td><button onclick="insert('2')">2</button></td>
        <td><button onclick="insert('3')">3</button></td>
        <td><button onclick="insert('+')">+</button></td>
    </tr>
    <tr>
        <td colspan="2"><button onclick="insert('0')">0</button></td>
        <td><button onclick="insert('.')">.</button></td>
        <td><button onclick="calculate()">=</button></td>
    </tr>
</table>
</div>
<script>
    let result = document.getElementById('result');

    function insert(char) {

```



```
        result.value += char;
    }
    function clearResult() {
        result.value = "";
    }
    function backspace() {
        result.value = result.value.slice(0, -1);
    }
    function calculate() {
        try {
            result.value = eval(result.value);
        } catch (error) {
            result.value = 'Error';
        }
    }
</script>
</body>
</html>
```

### Output



