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Tugas 3 Pemrograman Web, DOM

Link repository:

<https://github.com/yanwardos/pemrogramanweb.git>

Tangkapan layar running program:

Kalkulator sederhana dengan DOM

Bilangan pertama

Bilangan pertama

+ - * /

Hasilnya:

Kode program:

```
<!DOCTYPE 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>Tugas Event DOM</title>
  </head>
  <style>
    body {
      font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
    }
  </style>
</html>
```

```
.container {
  max-width: 400pt;
  margin: 2rem;
  padding: 1rem;
  background: #ffeeff;
  border-radius: 1rem;
  text-align: center;
}

.container > h1 {
  font-size: x-large;
}

.container .box {
  margin: 0pt 4pt 2pt 4pt;
  padding: 5pt;
}

.box > label {
  display: block;
  margin-bottom: 2pt;
}

.box > input {
  padding: 3pt;
  margin: 1pt;
  border-radius: 2pt;
  border-style: solid;
  border-width: 2pt;
  border-color: #ffdddd;
}

.operation {
  padding: 8pt;
  margin: 4pt;

  background: #ffdddd;
  border-color: #ffcccc;
  border-radius: 3pt;
  border-style: solid;

  font-weight: bolder;
}

.operation:hover {
  cursor: pointer;
}
```

```

.txtResult {
  margin: 4pt;
  padding: 4pt;

  font-size: x-large;
  background-color: white;
  display: block;
}
</style>
<body>
  <div class="container">
    <h1>Kalkulator sederhana dengan DOM</h1>
    <div class="box">
      <label for="txtFirstNum">Bilangan pertama</label>
      <input type="number" name="txtFirstNum" id="txtFirstNum" />
    </div>
    <div class="box">
      <label for="txtSecondNum">Bilangan pertama</label>
      <input type="number" name="txtSecondNum" id="txtSecondNum" />
    </div>
    <div class="box">
      <button class="operation" id="opAdd">+</button>
      <button class="operation" id="opSubstract">-</button>
      <button class="operation" id="opMultiply">*</button>
      <button class="operation" id="opDivide">/</button>
    </div>
    <div class="box">
      <span>Hasilnya:</span>
      <span class="txtResult">00</span>
    </div>
  </div>
</body>
<script>
  // ambil elemen
  let txtFirstNum = document.getElementById("txtFirstNum");
  let txtSecondNum = document.getElementById("txtSecondNum");
  let txtResult = document.getElementsByClassName("txtResult");
  let operators = document.getElementsByClassName("operation");
  let valFirstNum;
  let valSecondNum;

  let result = 0;

  // set event handler
  for (let index = 0; index < operators.length; index++) {
    const element = operators[index];
    element.addEventListener("click", (el) => {
      onClickCallback(el);

```

```
});  
}  
  
let onClickCallback = (element) => {  
  // ekstrak angka dari elemen  
  valFirstNum = Number.parseInt(txtFirstNum.value);  
  valSecondNum = Number.parseInt(txtSecondNum.value);  
  
  if (Number.isNaN(valFirstNum) || Number.isNaN(valSecondNum)) {  
    alert("Input salah");  
    return;  
  }  
  element = element.target;  
  switch (element.getAttribute("id")) {  
    case "opAdd":  
      result = valFirstNum + valSecondNum;  
      break;  
    case "opSubtract":  
      result = valFirstNum - valSecondNum;  
      break;  
    case "opMultiply":  
      result = valFirstNum * valSecondNum;  
      break;  
    case "opDivide":  
      result = valFirstNum / valSecondNum;  
      break;  
    default:  
      break;  
  }  
  
  for (let index = 0; index < txtResult.length; index++) {  
    const element = txtResult[index];  
    element.setHTML(result);  
  }  
};  
</script>  
</html>
```