Lesson | Thursday

Introduction to Programming (/introduction-to-programming) / JavaScript and Web Browsers (/introduction-to-programming/javascript-and-web-browsers)

/ Calculator with Forms and Branching

Text Cheat sheet

Example Code

calculator.html

```
<!DOCTYPE html>
<html lang="en-US">
<head>
 <title>Calculator</title>
 <link href="css/styles.css" rel="stylesheet" type="text/c</pre>
ss">
 <script src="js/scripts.js"></script>
</head>
<body>
 <h1>Calculator</h1>
 <form id="calculator">
    <label for="input1">1st number:</label>
   <input id="input1" type="text">
    <label for="input2">2nd number:</label>
    <input id="input2" type="text">
    <label>
      <input type="radio" name="operator" value="add">
      add
    </label>
    <label>
     <input type="radio" name="operator" value="subtract">
      subtract
    </label>
    <label>
     <input type="radio" name="operator" value="multiply">
     multiply
    </label>
    <label>
      <input type="radio" name="operator" value="divide">
     divide
    </label>
    <button type="submit" class="btn">Go!</button>
 </form>
 <h2>Results</h2>
 </body>
</html>
```

js/scripts.js			

```
// Business Logic
function add(num1, num2) {
  return num1 + num2;
}
function subtract(num1, num2) {
  return num1 - num2;
}
function multiply(num1, num2) {
  return num1 * num2;
}
function divide(num1, num2) {
  return num1 / num2;
}
// User Interface Logic
function handleCalculation(event) {
  event.preventDefault();
  const number1 = parseInt(document.querySelector("input#in
put1").value);
  const number2 = parseInt(document.querySelector("input#in
put2").value);
  const operator = document.querySelector("input[name='oper
ator']:checked").value;
  let result;
  if (operator === "add") {
    result = add(number1, number2);
  } else if (operator === "subtract") {
    result = subtract(number1, number2);
  } else if (operator === "multiply") {
    result = multiply(number1, number2);
  } else if (operator === "divide") {
    result = divide(number1, number2);
  }
  document.getElementById("output").innerText = result;
}
```

```
window.addEventListener("load", function() {
   const form = document.getElementById("calculator");
   form.addEventListener("submit", handleCalculation);
});
```

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Next (/introduction-to-programming/javascript-and-web-browsers/practice-calculator-and-more)

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