TALLINNA TEHNIKAÜLIKOOL

School of Information Technologies
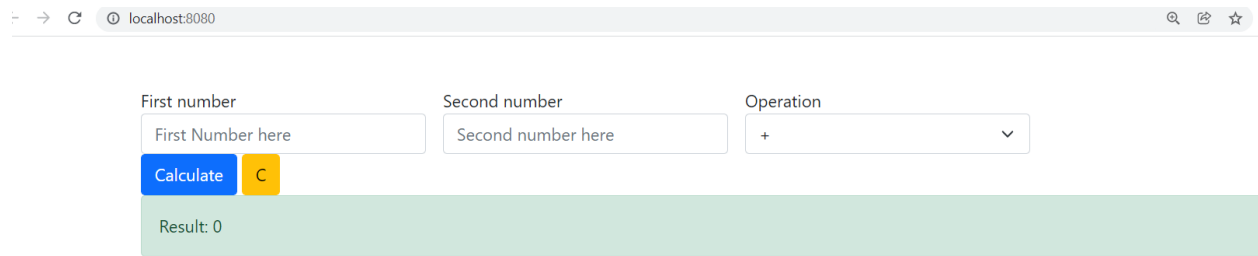
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HOMEWORK 1 – SIMPLE CALCULATOR

JavaScript

TALLINN 2022

SCREENSHOOTS
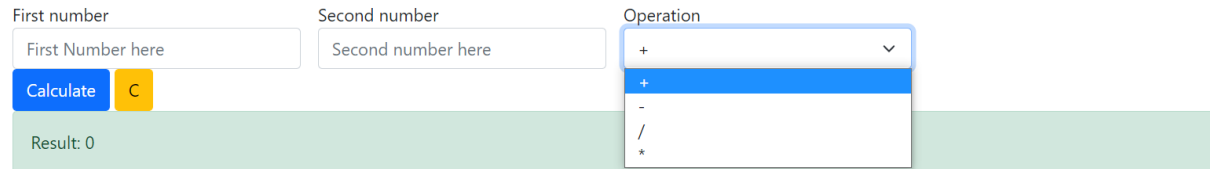

When we click calculate, we are going to see result in green result section.

When we click C, we going to see default values.

You can check my code below or in my school repository:
https://gitlab.cs.ttu.ee/ahabdu/icd0006-21-22-s

HTML CODE

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css
" rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
    <title>Calc</title>
</head>
<body>
<div class="container py-5">
<form class="row gx-3 gy-2 align-items-center">
    <div class="col-sm-3">
        <label  for="first_number">First number</label>
        <input type="text" class="form-control" id="first_number"
placeholder="First Number here">
    </div>
    <div class="col-sm-3">
        <label for="sec_number">Second number</label>
        <input type="text" class="form-control" id="sec_number"
placeholder="Second number here">
    </div>
    <div class="col-sm-3">
        <label for="operation">Operation</label>
        <select class="form-select" id="operation">
            <option value="+">+</option>
            <option value="-">-</option>
            <option value="/">/</option>
            <option value="*">*</option>
        </select>
    </div>
</form>
    <div class="">
        <button id="calculateit" type="submit" class="btn btn-
primary">Calculate</button>
        <button id="cleanup" type="submit" class="btn btn-warning">C</button>
    </div>
    <div class="alert alert-success g-col-4" role="alert">
    <p style="display: inline" >Result:</p>
    <p id="result_span" style="display: inline"> 0 </p>
    </div>
</div>
</body>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.mi
n.js" integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>
<script src="test.js"></script>
</html>
```
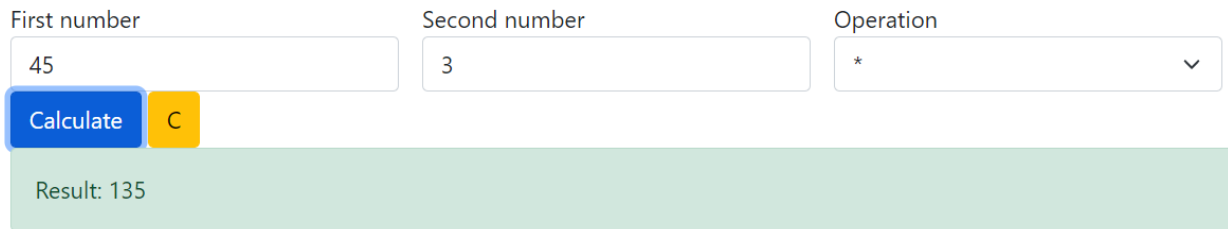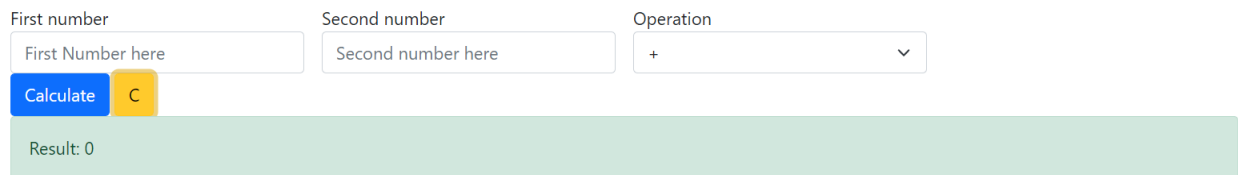
JAVASCRIPT CODE:

Description of the functionality is in the comments of the code

```javascript
// GET OUR ELEMENTS
let first_number = document.querySelector('#first_number')
let second_number = document.querySelector('#sec_number')
let operation = document.querySelector('#operation')
let button = document.querySelector('#calculateit')
let cleanupbtn = document.querySelector('#cleanup')
let resultSpan = document.querySelector('#result_span')
//GETTERS of our input values
function getFirstNumber() {
    return parseFloat(first_number.value);
}

function getSecondNumber() {
    return parseFloat(second_number.value);
}

function getOperation() {
    return operation.value;
}

button.onclick = function () { // all the calculation happens here
    let result = 0;
    if(getOperation() == "+"){
        result = getFirstNumber()+getSecondNumber();
    }
    if(getOperation() == "-"){
        result = getFirstNumber()-getSecondNumber()
    }
    if(getOperation() == "/"){
        result = getFirstNumber()/getSecondNumber();
    }
    if(getOperation() == "*"){
        result = getFirstNumber()*getSecondNumber();
    }
    resultSpan.innerHTML = result;

}

cleanupbtn.onclick = function () { // sets everything to default values
    first_number.value = null;
    second_number.value = null;
    operation.selectedIndex = 0;
    resultSpan.innerHTML = 0;
}
```