TALLINNA TEHNIKAÜLIKOOL School of Information Technologies

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HOMEWORK 1 LEG 3 – CALCULATOR ON JS(MODULES, EXPORTS, IMPORTS)

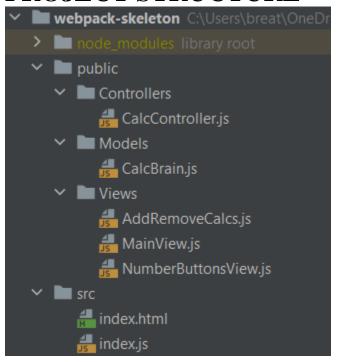
JavaScript

SCREENSHOOTS



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

PROJECT STRUCTURE



HTML CODE

JAVASCRIPT CODE:

Index.js

```
import AddRemoveCalcs from "../public/Views/AddRemoveCalcs";
let addRemoveCalcs = new AddRemoveCalcs();
addRemoveCalcs.addCalc();
addRemoveCalcs.removeCalc();
```

Calcbrain.js

```
export default class CalcBrain {
   getNumberOne() {
   setNumberOne(num) {
   getNumberTwo() {
   setNumberTwo(num) {
   getAdditionalNumber() {
```

```
setAdditionalNumber(num) {
changeNumberNegativeOrPositive(number) {
            this.numberOne = this.numberOne.substring(1)
            this.numberTwo = this.numberTwo.substring(1)
        if (this.additionalNumber.indexOf("-") >= 0) {
            this.additionalNumber = this.additionalNumber.substring(1)
clearNumber(number) {
            this.numberOne = this.numberOne.substring(0,
        if (this.numberTwo.replace(/\D/q,'').length > 1)
```

```
this.numberTwo = this.numberTwo.substring(0,
                this.additionalNumber = this.additionalNumber.substring(0,
    doMath(operation) {
            this.setMinusTrueOthersFalse()
                this.result = parseFloat(this.numberOne) -
parseFloat(this.numberTwo);
                this.result = parseFloat(this.result) -
parseFloat(this.additionalNumber);
            console.log("ples")
                this.result = parseFloat(this.numberOne) +
parseFloat(this.numberTwo);
parseFloat(this.additionalNumber);
            this.setDivideTrueOthersFalse()
                this.result = parseFloat(this.numberOne) /
```

```
this.result = parseFloat(this.result) /
parseFloat(this.additionalNumber);
            this.setMultiplyTrueOthersFalse()
                this.result = parseFloat(this.numberOne) *
parseFloat(this.numberTwo);
    getMinus() {
    getMultiply() {
    getDivide() {
        this.lastOperation = 'plus'
```

```
setMinusTrueOthersFalse() {
    this.minus = true;
    this.lastOperation = 'minus'

    this.plus = false;
    this.multiply = false;
    this.divide = false;
}

setMultiplyTrueOthersFalse() {
    this.multiply = true;
    this.lastOperation = 'multiply'

    this.plus = false;
    this.minus = false;
    this.divide = false;
}

setDivideTrueOthersFalse() {
    this.divide = true;
    this.divide = true;
    this.lastOperation = 'divide'

    this.plus = false;
    this.minus = false;
    this.minus = false;
    this.minus = false;
    this.multiply = false;
}
```

MainView.js

```
content.append(spanDiv)
spanDiv.append(span)
let body = document.createElement('div');
content.append(body)
body.append(btnGroup);
let footer = document.createElement('div');
let minus = document.createElement('button');
divide.innerText = "/";
todefault.innerText = "AC";
let dot = document.createElement('button');
```

```
dot.classList = "btn btn-secondary dot"+order;
dot.style.marginRight = "5px";
dot.innerText = ".";

let toplusorminus = document.createElement('button');
toplusorminus.classList = "btn btn-secondary toplusorminus"+order;;
toplusorminus.style.marginRight = "10px";
toplusorminus.innerText = "+/-";

let clearnum = document.createElement('button');
clearnum.classList = "btn btn-warning clearnum"+order;;
clearnum.style.marginLeft = "5px"
clearnum.innerText = "C";

footer.append(dot)
footer.append(plus)
footer.append(plus)
footer.append(divide)
footer.append(minus)
footer.append(multiply)
footer.append(equals)
footer.append(clearnum)
content.append(footer)

return content;
}
```

NumberButtonsView.js

CalcController.js

```
export default class CalcController {
    constructor(calcBrain, order) {
            document.querySelector("#monitor"+this.order).innerText = "";
                document.querySelector("#monitor"+this.order).innerText =
                document.querySelector("#monitor"+this.order).innerText =
parseFloat(nums) + "";
   setValues(event = null, dot = false, toplusorminus = false, clearnum =
        if (event != null) {
parseFloat(event.target.closest('.num').getAttribute('number'));
        if (this.calc.getNumberOne() == null && toplusorminus == false &&
            this.calc.setNumberOne(number + "");
            if (dot == true && this.calc.getNumberOne().indexOf(".") <= -1 &&
                let numStr = this.calc.getNumberOne() + "."; // adding one
                this.calc.setNumberOne(numStr)
                this.calc.setNumberOne(numStr)
               let num = this.calc.changeNumberNegativeOrPositive('first')
```

```
true || this.calc.getDivide() == true
                let numStr = this.calc.getNumberTwo() + ".";
                this.calc.setNumberTwo(numStr)
                let numStr = this.calc.getNumberTwo() + "" + number;
                this.calc.setNumberTwo(numStr);
                let num = this.calc.changeNumberNegativeOrPositive('second')
        if (this.calc.getResult() != null && (this.calc.getPlus() == true | |
this.calc.getMinus() == true
                || this.calc.getDivide() == true || this.calc.getMultiply()
            && this.calc.getAdditionalNumber() == null && toplusorminus ==
           this.calc.setAdditionalNumber(number + "");
            if (dot == true && this.calc.getAdditionalNumber().indexOf(".")
                let numStr = this.calc.getAdditionalNumber() + ".";
                this.calc.setAdditionalNumber(numStr)
```

```
} else if (dot == false && toplusorminus == false && clearnum ==
false) {
    let numStr = this.calc.getAdditionalNumber() + "" + number;
        this.calc.setAdditionalNumber(numStr);
        this.showNum(numStr)
}
    if(toplusorminus == true) {
        let num =
this.calc.changeNumberNegativeOrPositive('additional')
        this.showNum(num)
}
    if(clearnum == true) {
        let num = this.calc.clearNumber('additional')
        this.showNum(num)
}
}
doCalculations(operation) {
    let res = this.calc.doMath(operation)
        this.showNum(res)
}

toDefaultValues() {
    this.calc.setDefault();
    this.showNum(null)
}
}
```

AddRemoveCalcs

```
import NumberButtonsView from "./NumberButtonsView";
   constructor() {
   addNewCalc(globalNum) {
       let btnsView = NumberButtonsView();
       let viewer = MainView(btnsView, order);
       document.body.appendChild(viewer)
       document.querySelector('.quickmath'+order).addEventListener("click",
           my controller.setValues(e, false, false)
       document.querySelector('.dot'+order).addEventListener("click", (e) =>
       document.querySelector('.clearnum'+order).onclick= function () {
       document.querySelector('.plusik'+order).onclick = function () {
       document.querySelector('.multiply'+order).onclick = function () {
           my controller.doCalculations('multiply')
       document.querySelector('.divide'+order).onclick = function () {
       document.querySelector('.equals'+order).onclick = function () {
           my controller.doCalculations(my calc.getLastOperation());
```

```
addCalc() {
    let buttonAdd = document.createElement("button");
    buttonAdd.textContent = "Add Calc";
    buttonAdd.classList = "btn btn-primary"
    document.body.appendChild(buttonAdd)
    buttonAdd.onclick = () => {
        this.globalCounter++;
        this.addNewCalc(this.globalCounter);
    }
}
removeOldCalc(calc) {
    document.body.querySelector(`#calc_0${calc}`).remove()
}
removeCalc() {
    let buttonRemove = document.createElement("button");
    buttonRemove.textContent = "Remove Calc";
    buttonRemove.classList = "btn btn-warning"
    document.body.appendChild(buttonRemove)
    buttonRemove.onclick = () => {
        this.removeOldCalc(this.globalCounter);
        this.globalCounter--;
    }
}
```