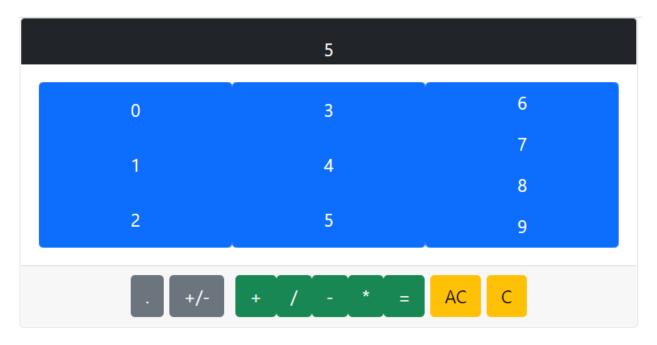
TALLINNA TEHNIKAÜLIKOOL School of Information Technologies

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HOMEWORK 2 – CALCULATOR ON JS

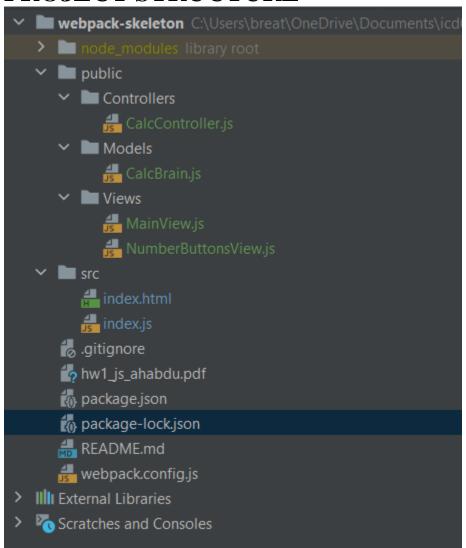
JavaScript

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 CalcBrain from "../public/Models/CalcBrain";
import MainView from "../public/Views/MainView";
import NumberButtonsView from "../public/Views/NumberButtonsView";
import CalcController from "../public/Controllers/CalcController";
let btnsView = NumberButtonsView();
let viewer = MainView(btnsView);
document.querySelector('.container').appendChild(viewer)
document.querySelector('#quickmath').addEventListener("click", (e) => {
document.querySelector('#dot').addEventListener("click", (e) => {
   my controller.setValues(null, true, false)
document.querySelector('#toplusorminus').onclick= function (){
   my controller.setValues(null, false, false, true)
document.querySelector('#plusik').onclick = function () {
    my controller.doCalculations('plus')
document.querySelector('#divide').onclick = function () {
   my controller.doCalculations('divide')
document.querySelector('#todefault').onclick = function () {
document.querySelector('#equals').onclick = function () {
   my controller.doCalculations(my calc.getLastOperation());
```

Calcbrain.js

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

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

```
doMath(operation) {
        if (operation == 'minus') {
            this.setMinusTrueOthersFalse()
                this.result = parseFloat(this.numberOne) -
parseFloat(this.numberTwo);
                this.result = parseFloat(this.result) -
parseFloat(this.additionalNumber);
            console.log("ples")
            this.setPlusTrueOthersFalse()
                this.result = parseFloat(this.numberOne) +
parseFloat(this.numberTwo);
                this.result = parseFloat(this.result) +
parseFloat(this.additionalNumber);
            this.setDivideTrueOthersFalse()
                this.result = parseFloat(this.numberOne) /
parseFloat(this.numberTwo);
        } else if (operation == 'multiply') {
            this.setMultiplyTrueOthersFalse()
parseFloat(this.numberTwo);
```

```
this.result = parseFloat(this.result) *
parseFloat(this.additionalNumber);
    getMinus() {
    getDivide() {
    getLastOperation() {
    setPlusTrueOthersFalse() {
    setMinusTrueOthersFalse() {
    setMultiplyTrueOthersFalse() {
```

```
this.divide = false;
}

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

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

MainView.js

```
export default function MainView(btns) {
   content.append(spanDiv)
   spanDiv.append(span)
   let body = document.createElement('div');
   content.append(body)
   body.append(btnGroup);
   let footer = document.createElement('div');
   let plus = document.createElement('button');
   let minus = document.createElement('button');
   let multiply = document.createElement('button');
   let divide = document.createElement('button');
```

```
todefault.id = "todefault";
let dot = document.createElement('button');
footer.append(dot)
footer.append(toplusorminus)
footer.append(plus)
footer.append(divide)
footer.append(minus)
footer.append(multiply)
footer.append(equals)
footer.append(todefault)
footer.append(clearnum)
content.append(footer)
```

NumberButtonsView.js

CalcController.js

```
export default class CalcController {
    constructor(calcBrain) {
            if (nums.indexOf(".") >= 0) {
                document.querySelector("span").innerText = nums;
                document.querySelector("span").innerText = parseFloat(nums) +
    setValues(event = null, dot = false, toplusorminus = false, clearnum =
parseFloat(event.target.closest('.num').getAttribute('number'));
        if (this.calc.getNumberOne() == null && toplusorminus == false &&
            this.calc.setNumberOne(number + "");
            && this.calc.getMultiply() == false && this.calc.getNumberOne()
            if (dot == true && this.calc.getNumberOne().indexOf(".") <= -1 &&
                this.calc.setNumberOne(numStr)
                let numStr = this.calc.getNumberOne() + "" + number;
                this.calc.setNumberOne(numStr)
                this.showNum(numStr)
               let num = this.calc.changeNumberNegativeOrPositive('first')
```

```
let num = this.calc.clearNumber('first')
       if (this.calc.getNumberTwo() == null && (this.calc.getPlus() == true
            || this.calc.getDivide() == true || this.calc.getMultiply() ==
            this.calc.setNumberTwo(number + "");
        } else if ((this.calc.getPlus() == true || this.calc.getMinus() ==
true || this.calc.getDivide() == true
            || this.calc.getMultiply() == true) && this.calc.getNumberTwo()
                let numStr = this.calc.getNumberTwo() + ".";
                this.calc.setNumberTwo(numStr)
                let numStr = this.calc.getNumberTwo() + "" + number;
                let num = this.calc.changeNumberNegativeOrPositive('second')
this.calc.getMinus() == true
                || this.calc.getDivide() == true || this.calc.getMultiply()
            && this.calc.getAdditionalNumber() == null && toplusorminus ==
           this.calc.setAdditionalNumber(number + "");
true || this.calc.getMinus() == true
                || this.calc.getDivide() == true || this.calc.getMultiply()
                let numStr = this.calc.getAdditionalNumber() + ".";
               this.calc.setAdditionalNumber(numStr)
```