

# LU06.A08 - Events - basic calculator

## Prerequisites

- Work type: Individual
- Means of aid: only teaching materials, no websearch, no use of ai.
- Timeframe: 35 Minutes
- Expected result: A browser based calculator which can sum up 2 digits in the easiest way.

## Source

- You can take any script and adjust it to your needs.

## Assignment

This assignment comprises the programming of a tiny calculator for basic calculation operations, meaning two digits have to be added together. To do the assignment we need two blocks of digits-buttons and a operation-button „+“ to execute the operation respectively to receive the result.

### Assignment A - 3'

- A01: Create in Webstorm in your directory **06\_methods** a html file and name it correctly **LU06.S08**.
- A02: Copy the structure of the sfc (single file component) from a solution of your choice (in that way we don't have to type it manually -> easier and faster)
- A03: Make sure to have
  - the assignment number <h1>-titel and
  - the description in <h3>-format
- A04: Save it.

### Assignment B - Variables - 5'

- B01: To make an addition work in our VUE instance we need three variables with the corresponding initial values
  - diggit1:0
  - diggit2:0
  - result:0

### Assignment C - Button for diggit 1 - 10'

- C01: Create the buttons 1 to 4 (that shall suffice for our purpose)
- C02: When clicking on one of them the content will be saved in the variable **diggit1** with the corresponding number 1-4, meaning when clicking the 1, the variable diggit will be set with 1.

## Assignment D - Button for diggit 2 - 2'

- D01: Create the second set of buttons 1 to 4 to set the second diggit. (4 of them shall suffice for our purpose)
- D02: When clicking on one of them the content will be saved in the variable **diggit2**

## Assignment E: Implementation of the calculation - 10'

- E01: To execute our addition-operation we finally need a button **Operator**-button.
- E02: Clicking this operator-Button adds diggit1 to diggit2 and displays the result (result = diggit1 + diggit2)

## Assignment F: Reset button - 5'

- F01: Create finally a **reset**-button which sets all value to the initial ones.
- F02: Meaning clicking on the reset-button uses: result=0, diggit1=0, diggit2=0

## Solution

[Lösung](#)

## Vocabulary

English	German
diggit	Ziffer
initial values	Startwerte
to suffice	ausreichen
respectively	beziehungsweise
to comprise	umfassen
several	einige, etliche



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