

# LU07.A09 - Basic calculator simple

## Prerequisites

- Work type: Individual
- Means of aid: only teaching materials, no websearch, no use of ai.
- Timeframe: 45 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, an operation-button for „+“ and finally an ENTER-Button to execute the operation respectively to receive the result.

## Assignment A - 3'

- A01: Create in Webstorm in your directory **07\_methods** a html file and name it correctly **LU07.S09**.
- 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 in `<h1>` and
  - the description in `<h3>`-format
- A04: Save it.

## Assignment D - Button for digit 1 - 10'

- B01: Create the buttons 1 to 4 (that shall suffice for our purpose)
- B02: When clicking on one of them the content will be saved in the variable **diggit1**

## Assignment C - Variables - 7'

- C01: A basic calculation **3 + 3 = 6** comprises several variables and their initial values:
  - `diggit1: 0`

- operator: "
- diggit2: 0
- result: 0

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

- 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 - 15'

- E01: To execute our addition-operation we finally need a button **ENTER**.
- E02: This enter calls a method calcResult(operator).
- E03: Thus the addition is done in the method, correspondingly to the provided operator.
- E04: As a result, after pressing the enter button, the result should be displayed in the screen.

## 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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Last update: 2025/05/19 13:20



