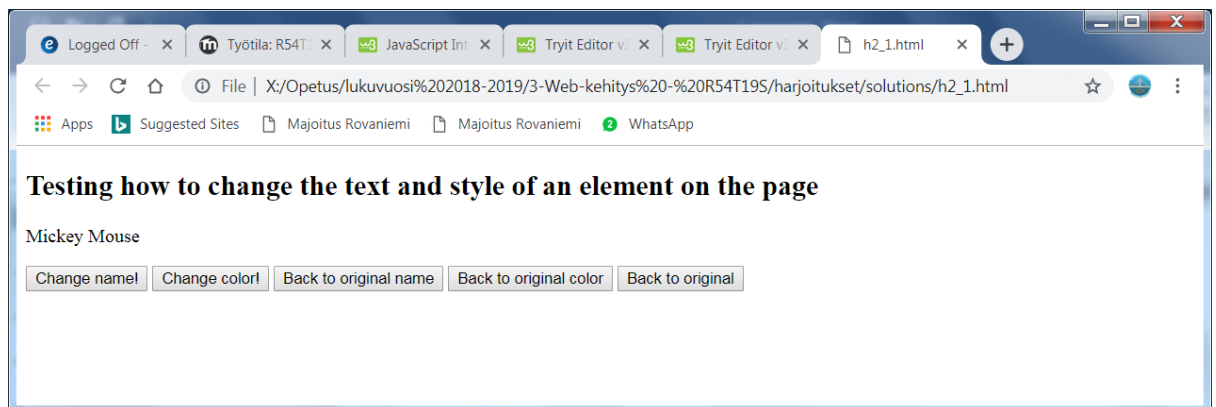
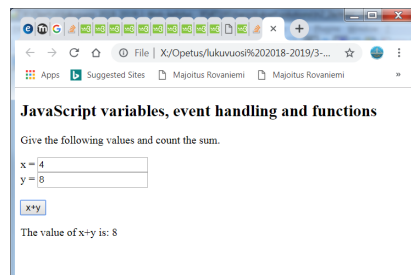


## Exercise - JavaScript, basics max 10p

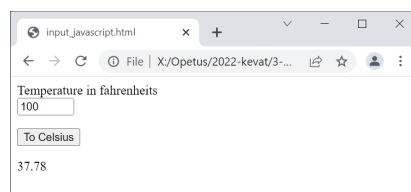
1. Create a simple website and the event handlers. When user presses
  - Change name! –button, show the name "Donald Duck".
  - Change color! –button, change the background color of the name to be red
  - Back to original name –button, show the original name "Mickey Mouse"
  - Back to original color –button, change the background color of the name to be white again.
  - Back to original –button, show "Mickey Mouse" with white background.**(1p)**



2. Events and variables + Date object (max 4p)
  - a. Create the following app where user can input two integers and after pressing the button it counts the sum of these numbers below the button. **(1p)**



- b. Create a website which asks the temperature as fahrenheit and counts the celcius. The form is  $T(^{\circ}\text{C}) = (T(^{\circ}\text{F}) - 32) \times 5/9$ . Round the result to two decimals **(1p)**



- c. Create a html website which is asking a temperature. You have to show the text depending on the temperature
- "Pretty cold", if the temperature is (-40)- (-20) degrees.
  - "Average winter day", jos lämpötila (-19) – (-5) degrees.
  - "Mild", jos lämpötila (-5) - 5 degrees.
  - "Not really warm yet", jos lämpötila 6-15 degrees.
  - "Warm", jos lämpötila 16-25 degrees.
  - "HOT", jos lämpötila 26-40 astetta.

(1p)

Give the temperature  
-25  
Weather Check  
Pretty Cold

- d. Create the following website which counts the difference of two dates in days. (1p)

DATE 1  
02/16/2022  
DATE 2  
02/25/2022  
DIFFERENCE  
9 päivää

### 3. JS Objects and Arrays (2p)

- a. In your JavaScript code create the following object (1p)

```
let student = {id: "123456", firstname:"John", lastname:"Doe", age: 48};
```

Print the information on the screen without using any loop.

id= 123456  
firstname= John  
lastname= Doe  
age= 48

b. Print the previous information on the screen using for in -loop. (1p)

4. Implement web application for counting the post costs according to following table. (3p)

Type	Base price	Painoluokka		
		< 200g	200g - 500g	> 500g
Letter	50 cents	no extra costs	4 c / 100g	7 c / 100g
Package	2eur	no extra costs	8 c / 100g	14 c / 100g

- Example1: you are posting a letter of 360g. Price is 50 cents + 2 \* 4 cents = 8 cents. This is because 0-200g letter does not have any extra costs but 200-300g has 4 cents extra and 300-400g letter has 8 cents extra
- Example 2: You are posting letter of 680g: Price is 50 c + 3\*4c + 2\*7c = 76 c