**Intro to JS**

**DEADLINE:** 18.02.2023, 18:00

**FOLDER STRUCTURE**

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| --- | --- |
| COE1\_HW3/\*     └─ task/  └─ homework/\*  └─ js/\*  └─ task1.js\*  └─ task1.html\*  └─ .eslintrc.js\* | \*   – required  https://docs.google.com/drawings/d/sacr32sj3QL4ynvXOijYsjg/image?w=21&h=21&rev=1&ac=1&parent=1Wtv1WPeniXS7OF4sZ_WL11aF6vRJn3Xa7liFYB9Uvgg    – not needed |

**TASK**

**Task 1**. You need to calculate the profit of the deposit account.

Workflow:

1. User inputs initial amount of money. (Use “prompt” function).
2. User inputs number of years. (Use “prompt” function).
3. User inputs percentage of a year. (Use “prompt” function)

Percentage of a year - percentage of the all amount earned every year by the owner of the money.

**Warning**: Every year amount changes. (Check example)

1. You need to validate the input data: three values should be numbers, initial amount can’t be less than 1000, number of years can’t be less than 1, percentage can’t be bigger than 100.
2. If input data isn’t valid, you should show message “Invalid input data”. (Use “alert” function).
3. You need to calculate total profit and total amount.
4. Show message: (example). Use ”alert” function  
   Initial amount: 1000

Number of years: 3

Percentage of year: 10

Total profit: 331.00

Total amount: 1331.00

You should show only 2 numbers after comma (if needed).

Number of years can be only integers.

Example:

Initial amount: 1000

Number of years: 2

Percentage of year: 10

1 Year

Total profit: 100 (10% from initial amount)

Total amount: 1100 (initial amount + total profit)

2 Year

Total profit: 210 (previous profit + 10% from previous total amount (1100))

Total amount: 1210 (initial amount + total profit)

**BEFORE SUBMIT**

* Read requirements and compare to your homework result
* Format the code (remove unnecessary lines of code)
* Remove all unnecessary files that you might have included by mistake
* Install **eslint** to check your code (*npm install -g eslint*)
* Open a terminal(or cmd)
* Go to ‘homework’ folder
* Run **eslint** (i.e. *eslint ./js/task1.js*), code should be without ‘errors’
* Please note, that one js file should contain one task

**SUBMIT**

* The folder should be uploaded to GitLab repository “**COE-1**” into **main** branch

**USEFUL LINKS**

* <https://developer.mozilla.org/en-US/docs/Web/API/Window/prompt>
* <https://developer.mozilla.org/en-US/docs/Web/API/Window/alert>
* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/parseInt>
* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/parseFloat>
* <https://developer.mozilla.org/uk/docs/Web/JavaScript/Reference/Global_Objects/Math>
* <https://developer.mozilla.org/uk/docs/Web/JavaScript/Reference/Global_Objects/String>