**Intro to JS**

**DEADLINE:** 26/04/2020

**FOLDER STRUCTURE**

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| --- | --- |
| FL13\_HW6/\*     └─ task/      └─ FL13\_HW6.docx  └─ homework/\*  └─ js/\*  └─ task1.js\*  └─ task2.js\*  └─ task1.html\*  └─ task2.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 amount of tip to give in a restaurant/cafe.

Workflow:

1. User inputs check number. (Use “prompt” function).
2. User inputs tip percentage. (Use “prompt” function)
3. You need to validate the input data: both values should be numbers, total sum can’t be a negative number, percentage can’t be negative and bigger than 100.
4. If input data isn’t valid, you should show message “Invalid input data”. (Use “alert” function).
5. You need to calculate tip amount and total sum to pay.
6. Show message: (example). Use ”alert” function  
   Check number: 200

Tip: 15%

Tip amount: 30

Total sum to pay: 230

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

**Task 2**. Find middle character of the word.

User is going to input a word. Your task is to find the middle character of this word. If the word’s length is odd - return the middle character. If word’s length is even - return the middle 2 characters.

You should validate for empty value and for value with spaces only, in that case show message: “Invalid value”.

For user input use “prompt” function. For displaying result use “alert” function.

Examples:

For user input “test” should return “es”

For user input “character” should return “a”

For user input “B” should return “B”

For user input “” should return “Invalid value”

For user input “ “ should return “Invalid value”

**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
* In order to use npm package manager you should install **nodejs** (https://nodejs.org/ )
* 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 github repository “**FL13**” into **master** 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>