**Intro to JS**

**DEADLINE:** 5/02/2019

**FOLDER STRUCTURE**

|  |  |
| --- | --- |
| FLX\_homework\_6/\*     └─ task/      └─ FLX\_homework\_6.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    – optional |

**TASK**

**Task 1**. Implement app for solve Quadratic equation.

App workflow:

1. User input 3 values (*a, b, c*) for quadratic equation (*ax2 + bx + c = 0*).
2. If input data not valid show message in console (‘Invalid input data’).
3. If possible, find Discriminant.
4. Use console.log to show result, variants:

* *x = 0*;
* *x1 = ‘value1’* and *x2 = ‘value2’*;
* no solution (when Discriminant < 0);

**Task 2**. Calculate the total price with a discount.

App workflow:

1. User input amount of money (use prompt function), amount of money should be in range 0 to 9999999.
2. User input the discount - 0 to 99 (use prompt function).
3. If input data not valid show message in console (‘Invalid input data’).
4. Show new message in console (use console.log function only once):

For input data 4950(price) and 30(discount):

Price without discount: 4950

Discount: 30%

Price with discount: 3465

Saved: 1485

For input data -60(price) and 30(discount):

’Invalid data’

In console show only 2 number after comma (if needed):

2.1578746 => 2.15

0.00123 => 0

5 => 5

**RESTRICTIONS**

* No requirements for browser support (should correct work in Google Chrome last version).

**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 “**FLX**” into **master** branch

**USEFUL LINKS**

* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Math>
* <https://en.wikipedia.org/wiki/Quadratic_equation>