**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

   – optional

**TASK**

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

"no-console": "off",

App workflow:

• User input 3 values (*a, b, c*) for quadratic equation (*ax2 + bx + c = 0*).

• If input data not valid show message in console (‘Invalid input data’).

• If possible, find Discriminant.

• 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:

• User input amount of money (use prompt function), amount of money should be in range 0 to 9999999.

• User input the discount - 0 to 99 (use prompt function).

• If input data not valid show message in console (‘Invalid input data’).

• 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

• ` (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