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Web Programming and Problem Solving

JavaScript Loops (**lab**)

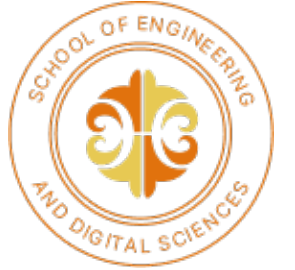
Date: 28.10.2022

Instructor: Zhandos Yessenbayev



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Task

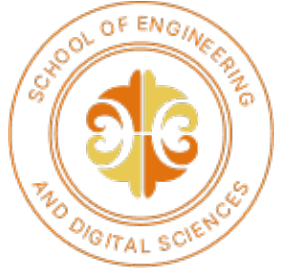


Goal:

- In this **Lab** you will build practical skills to use JavaScript loops and functions to solve problems.
- **Deadlines:**
 - **Soft** deadline: Tuesday, 01.11.2022, until 23:59
 - **Hard** deadline: Wednesday, 02.11.2022, until 23:59



Tasks

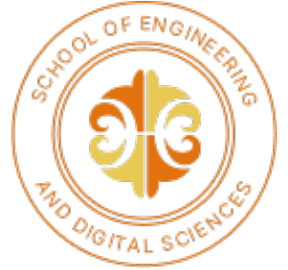


In this task you need to reimplement your program that you did in **Lab 8** with some modifications as follows:

1. you need to include the scores of all the labs for the computations;
2. you need to calculate the sums of the scores for each lab using loops (**for** or **while** loops);
3. you need to use **functions** in order to reuse your code;
4. you need to have the **main function** that takes your **labs** as arguments and returns the **results** object (as in lab 8).



Data collection



Task 1 (5 points).

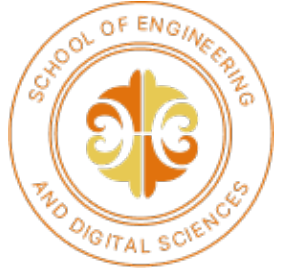
In this task you need to work with your scores (**Lab1-Lab9**, and **Quiz1**) which are in the Course Dashboard (via link): <https://docs.google.com/spreadsheets/d/1xqyqpQ10Wpug1tY8noiqhdiZsrKu15gMOl3nuUHFq8/edit?usp=sharing>

- Create one array per each Lab, where the elements of the array are the individual scores for each criteria (5 points):
 - `let lab1 = [5, 5, 0, ...];`

No	GitHub account	Section	Text Editor (5)	Hello, World! (5)	BrowserSync (5)	Git (5)	GitHub Account (5)	First Commit (10)	Publish website (10)
1	AdilAbdilor	1L					5		
2	abduali10s	1L					5		
3	Nepolionn	1L	5	5		5	5	10	10
4	TimurAmrenov	1L	5	5		5	5	10	10
5	AselArgynbek	1L	5	5		5	5	10	10
6	aidanabaltabekova	1L	5	5		5	5	10	10



Using loops



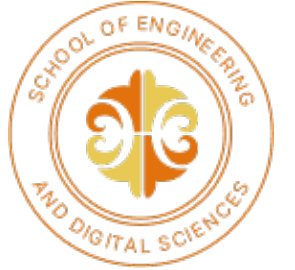
Task 2 (10 points).

To calculate the sums, you **must** use **for** or **while** loops. For instance, you can use and modify the code below.

```
let lab1 = [5,5,0,5,5,10,10];  
let sum1 = 0;  
for (let i = 0; i < lab1.length; i++) {  
    sum1 += lab1[i];  
}
```



Using functions



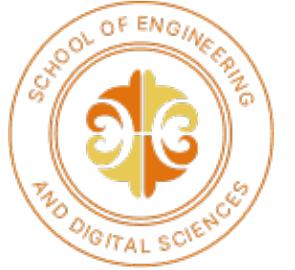
Task 3 (10 points).

Since you have several sums, the computation of the sums **must** be implemented as a **function** so that it takes the **array of lab scores** as an **argument** and **returns** the **computed sum** as follows:

```
function get_sum(lab) {  
    // body of the function  
    return sum;  
}
```



Main function

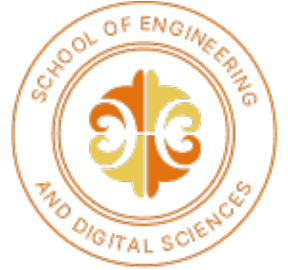


Task 4 (10 points).

In this task, you need to have the **main function** that takes your **labs** as arguments and returns the **results** object (as in lab 8).

And don't forget to **print the results object** to the console!!!

```
function main(lab1, lab2, lab3, ...) {  
    // body of the function  
    return obj;  
}
```



Task 5 (5 points).

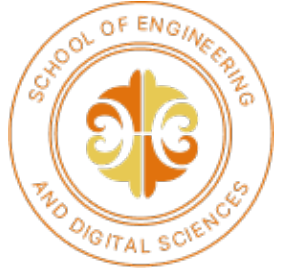
To submit your work, follow these instructions:

1. Create a new repository on Github, named **lab10**.
2. Clone this repository to your local machine and work inside it.
3. Create a new HTML file, called **index.html**, which has only one **<h1>** tag with “Hello, World!” message.
4. Create a new JavaScript file, called **main.js**, which **must** contain your program (assignment) described above.
5. Link this **main.js** file to your **index.html** file (see the lecture notes).
6. The output of your program **must** be visible in the **Console** tab of the browser’s Developer Tools.
7. After you finish your work, submit it to the Github.



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Grading



Task	Points
Data collection	5
Using loops	10
Using functions	10
Main function	10
Submission	5
TOTAL	40