



Eastern Mediterranean University  
School of Computing and Technology  
Information Technology

## Assignment#2 (%5)

ITEC114  
Structured Programming

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**Due Date: Friday May 25**

**NO EXTENSIONS**

**SUBMIT FORMAT: HARD COPY with a cover page**

If you have any problems about the assignment, feel free to send an email to me [akile.oday@emu.edu.tr] with the **title [ITEC114 assignment2]**.

### Task:

Program using two functions and a structure, simple calculations will be manipulated in one function (sum and average). The program will prompt the user to enter student name, project marks (3) and homework marks (2) from the keyboard and store each of the input values in an array, display student name, project average and homework average (via a function call), calculate and input (via a function call)

OUTPUT: (user input is in **bold**):

```
enter name: Ahmet
  enter project marks
    project1?85
    project2?84
    project3?74
  enter hw marks
    hw1?65
    hw2?68
```

```
enter name: Nuha
  enter project marks
    project1?80
    project2?62
    project3?95
  enter hw marks
    hw1?75
    hw2?79
```

```
enter name: Usman
  enter project marks
    project1?95
    project2?100
    project3?85
  enter hw marks
    hw1?86
    hw2?87
```

STUDENT NAME	PROJECT AVERAGE	HW AVERAGE
Ahmet	86	66
Nuha	79	77
Usman	93	86

## General outline of your program

(See the output above for exact wording of prompts)

1) Prompt the user to enter NUM\_OF\_ELEMENTS integers where NUM\_OF\_ELEMENTS is defined as

```
#define NUM_OF_ELEMENTS 3.
```

2) use the given structure below

```
struct studentInfo{
    char firstName[20];
    int projectMarks[3];
    int hwMarks[2];
}student[5];
```

3) Call the function input () to enter name, project marks(three marks for each student) and homework marks (two marks for each student ) and calculate the averages.

4) Call the function output() to output the student name, project average and homework average in the above format.

Here are the function prototypes you must use (besides your main() function) :

```
void input(struct studentInfo *std);
void output(struct studentInfo *std);
```

NOTE: Please follow the instructions on how to write this program. This will make grading much easier. The main purpose of this assignment is to learn more about using structures.

Each function requires a header comment

Follow proper indentation and coding style as outlined in class.

Use NUM\_OF\_ELEMENTS throughout your code; DO NOT USE the value 3 anywhere except in the #define.

Your program will be tested with only valid input (no need to deal with less than or more than 3 input from the user).