**ATILIM UNIVERSITY**

**DEPARTMENT OF COMPUTER ENGINEERING**

**COMPE 114 – COMPUTER PROGRAMMING II**

**HOMEWORK I**

**Instructors:** Çiğdem Turhan

Güler Kalem

**Assistants:** Batuhan Coşar

Seda Çamalan

Ersin Tiryaki

**Due Date:** Oct. 30, 2018 **(by midnight)**

This semester there are 4 sections offered in CMPE113. Write a program to process the performance of the sections in the first midterm. The program should include the following:

* Declare a matrix which holds students’ midterm I grades for every section. Assume that in every section there are 10 students.
* Write a function to input the matrix.
* Write a function to find and store the average of each section in a one-dimensional array. Also, find the highest average along with its section number. Return the average array, highest average and section number with the highest average as parameters.
* The main program should input the grades and output the averages of the 4 sections, highest average and the section number achieving the highest average as shown in the sample run below.

**Sample Run:**

Enter grades of section 1: **80 95 62 33 88 90 44 75 59 62**

Enter grades of section 2: **77 35 93 45 99 90 23 66 78 33**

Enter grades of section 3: **…**

Enter grades of section 4: …

The averages of the sections:

Section 1: 68,8

Section 2: 63,9

Section 3: 69,2

Section 4: 65,4

Section 3 has the highest average: 69,2

**IMPORTANT NOTES:**

* Cheating will NOT be tolerated. Special software will be used to verify if the submitted homework is your original work or copied from someone/somewhere else. If any case of cheating is detected, at any time, **you will get ZERO from your homework.**
* You should upload your homework file to the Moodle system.
* The name of your homework file should be **”StudentID\_HwNumber.cpp”,** for example: "11122233\_hw1.cpp".
* You should use indentation and comments in your code.
* Late homeworks will NOT be graded.