

CSIS1175 Fall 19 AS1

**Solution and project names:** AS1XxxYyy where Xxx is your first name and Yyy is your last name. Please use upper and lower cases for the project solution/program names. If you are working on this assignment with partners (max 3 including yourself), you can simply use your own name. ***You must zip up your entire solution and then submit it online using Blackboard. No late assignment will be accepted. Marks will be given to those with the names coded inside the program and displayed as part of the output.***

Throughout your program you must provide adequate comments to explain your logics. At the beginning of your program, you must enter your section number, your and other partners' names, as well as everyone's email addres. Without counting the comments, you should be able to complete this assignment in about 120 lines of code.

Please submit only one program to me if you are working with partners. Any 2 or more programs submitted that are similar in style will be considered as copying from each other, i.e. cheating in assignment!

If for whatever reason I cannot open or execute your program, you will receive zero in this assignment. This assignment carries 3% of your course grade. Your program must be done using Visual Studio 2019.

This assignment is to help you understand the use of methods and parameter passing. Besides the **Main** method, you have to code two other methods: **getCourse** and **getCost**.

When your program is first being executed, the Main method displays the following messages and waits for the user to enter the required info for the 3 courses.

```
Enter the dept, course id, and credits
e.g. C 1175 3 B 2200 5 A 1110 3
max 3 courses to be entered
```

The Main method accepts the user input with the following format:

Dept code, Course number, course credits, Dept code, Course number, course credits, Dept code, Course number, course credits

eg: **C 1175 3 B 2200 5 A 1110 3**

For the purpose of this assignment, you can assume that your users do not make any data entry error but they can enter either upper or lower case for the dept code. There is no particular sequence of courses to be entered. If the user enters **C 1175** twice, he will pay twice and it is not considered as an error.

You need to refer to the table on the right for details.

Dept	Dept Code	lab fee / credit
ACCT	A or a	\$ 35.50
BUSN	B or b	\$ 10.00
CSIS	C or c	\$ 45.00
Course level		Tuition / credit
1000		\$ 250.00
2000		\$ 300.00
3000 & 4000		\$ 500.00
<b>Activity fee: 10% of total lab &amp; tuition fees</b>		

Once the Main method has accepted the user input, it passes the entire line of data entry together with other data to the `getCourse` method.

The `getCourse` method breaks down the input line and passes the required data to the `calcCost` method. The `calcCost` method computes the tuition, lab, and activity fees, one course at a time. It also adds up the total fee amount before returning the results back to `getCourse`. `getCourse` calls `calcCost` three times, one for each course, and accumulates the fee totals. `getCourse` then passes all the computed results back to Main to display the results as shown below:

```
Courses registered CSIS1175 BUSN2200 ACCT1110
Tuition fee:      $3,000.00
Lab fee:          $291.50
Activity fee:      $493.73
Total amount:     $3,785.23

Program coded by Xxx Yyy
```

You must note that **both `getCourse` and `calcCost` do not display any results on screen at all**. All the input and output must be handled by the Main method.

You must replace Xxx Yyy with everyone's first and last names. Format your output as shown for marks.

Zip up the entire program with the same name and submit the zipped file to Blackboard. No late assignment will be accepted.

```
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**Deadline for submission: September 28<sup>th</sup>, 2019 11:59pm.**