**COP-2210 – Lab 2**

**Objective**

Students will be able to understand and master working with fundamental data types, including input, output and basic operations, by developing programs that address various problems.

**Guidelines**

* The assignment is to be completed in pairs.
* Questions are based on content discussed in the Lecture and book readings.
* NetBeans is the IDE of choice.
* Students are expected to attend each lab session and actively participate in the lab activities.
* Lab should be completed and submitted by the end of the lab time. Extra time would be considered on a case by case analysis and last day to submit would be Friday.
* To submit, upload your lab solutions to the dropbox in Canvas.
* Make sure you include the information of the developers as a comment in the first lines of each program of the lab:

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Panther ID: \_\_\_\_4566551\_\_\_

Week: \_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_

Section: \_\_\_\_\_\_U02\_\_\_\_\_\_

Student Name: \_\_\_\_\_Miguel Cortes\_\_\_

Panther ID: \_\_\_6065483\_\_\_\_

**Lab Questions**

The lab involves completing a number of questions from the Chapter 4 of our textbook.

1. Write a program that:
   1. asks the user to enter his/her email address and his/her postal address,
   2. stores the email address in *email*, a String variable, and the postal address in *postalAddress*, a String variable,
      1. concatenates the values of *email* and the value of *postalAddress*, and assign the result to *output*, a String variable,
      2. prints the value of *output*.

3) Write a program that prompts the user for two doubles and then prints their average.

1. **E4.1** Write a program that displays the dimensions of a letter-size (8.5 × 11 inches) sheet of paper inmillimeters. There are 25.4 millimeters per inch.
2. **A variation of Exercise E4.8** Write a program that asks the user for the lengths of a rectangle’s sides.

Then print the area and the perimeter of the rectangle.

**Grading Rubric**

Lab grade is 10 points (out of 1000 total course points). Question weights are as follows:

|  |  |
| --- | --- |
| **Question** | **Points** |
| 1 | 3 pts |
| 2 | 2 pts |
| 3 | 2 pts |
| 4 | 3 pts |

Answers will be graded based on correctness, completion, and organization.