**CMPSC121: Intro to Programming Techniques**

Lab 02 – About Computer & Programming (20 points)

# Objectives

After this lab assignment, students should be able to:

* Review the basic concept of computer systems and programming
* Algorithm and pseudo code
* Write simple programs given.

1. **Review Questions** (5 points)

Please use a different color (preferably red) font for your answers for easy grading. There are a total of 21 answer items (1 free item). A 0.25 points will be deducted for an incorrect item.

1. Computers can do many different jobs because they can be coded to perform computations and produce different outputs
2. The 5 major parts of computer hardware are CPU , Main memory or RAM ,

Secondary storage , Input devices and Output devices

1. The job of the CPU is to fetch instructions, carry out the operations commanded by the instructions, and produce some outcomes or resultant information.
2. Internally, the CPU consists of the control unit and the ALU
3. A(n) hard disk is an example of a secondary storage device.
4. A program is a set of instructions
5. Secondary storage is not volatile
6. Since computers can't be programmed in natural human language, algorithms must be written in a(n) programming language.
7. Machine language (binary) is the only language computers able to process.
8. Words that have special meaning in a programming language are called keywords
9. The three primary processes of translating C++ language into machine language are

preprocessor , compiler and linker

1. The three primary activities of a program are inputting data , processing the data and  
    producing an output
2. **Algorithm and Pseudo Code** (8 points)

# Write an algorithm (in pseudocode) to read three numbers from the user. Then, add the first two numbers and divide the result by the third one. Write your algorithm in the blank space below:

# Ask 3 integers, read them into num1, num2, & num3

# 

sum = num1 + num2

Display sum

divide = sum / num3

Display divide

1. **A Simple Program** (7 points)

Based on the previous assignment, write a program **personalinfo.cpp** that displays the following pieces of information, each on a separate line:

Your name

Your address, with the city, state, and ZIP code (use a makeup address)

Your telephone number (use a makeup number)

## Sample Output:

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Programmer: Dean DeFino**

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**Notes**

* Copy and paste your console outputs after the end of your source file. Remember to comment the output with /\* and \*/ or multiple //, e.g.

### /\*

**Your console output...**

**...**

**\*/**

* Make sure your program is compiled successfully using Visual Studio C++.

# Submission

Submit the following file(s) to Canvas before the deadline:

### This document

### personalinfo.cpp