

Vanier College
Faculty of Science and Technology
Computer Science Department

PROGRAMMING 1 - LAB #1

Course Number:	420-101-VA	Teacher:	Tássia Camões Araújo
Semester:	Winter 2020	Section:	00001 & 00002

Instructions

Use this document to guide your study on chapters 1 & 2. Create a remote repository named Prog1Lab1 to host your code. Mio the teacher with the repository link, so that she can give you proper feedback. Commit after the completion of each task, and push your changes to the repository at the end of each working session.

Expectations

You won't be graded on the correctness of your solutions, but the submission to the remote repository will be counted as your participation in labs (10% of the final grade). You are expected to practice a good portion of those exercises in your study time. The more, the better.

Beyond the textbook

1. Modify the *Path* environment variable in Windows to be able to use the Java compiler from the command prompt. First you need to find the right location of *javac.exe* (C:\\ProgramFiles\\Java\\jdk1.8.0...\\bin)
2. Copy a *HelloWorld.java* from the book or the Internet, and use the command *javac* to compile the code and *java* to run your program. Use the HelloWorld code as the base structure for your other programs. You'll always need to change the class identifier, the file name, and statements inside the main method.
3. Create a class *MyAgeIs* that calculates and print a message containing your age. Use *int* variables to hold the values of *currentYear* and *yearOfBirth*.
4. Create a program to convert units of distance, from meters to feet. The output should state that a given distance in meters is equal to a certain amount of feet.
5. Create a program to convert currency. The initial value in CAD should be saved in a variable of type *double*, and the output should present it in at least 3 currencies: CAD, USD and EUR.
6. Create a program to calculate the area and perimeter of a rectangle.

Textbook questions

Chapter 1 1-18; 24-30.

Chapter 2 40-51.