**Programming 1 Week 7 Lab Exercises**

You are allowed to use online resources like W3Schools (recommended) for syntaxes.

Create a file named lastname\_studentnumber.txt. For each of the exercises below, copy your solution from your .java file (after it has been compiled and ran successfully), indicate the exercise number and paste into the .txt document. Submit the .txt file on Lea.

1. Write a program that receives a word as an input from the user and checks if it is a palindrome: if it reads the same backward as forward. A few examples are “civic”, “radar” and “level”. To make your program more advanced, ignore punctuation, capitalization, and spaces, and recognize sentences as “A man, a plan, a canal - Panama”, “Murder for a jar of red rum” and “Madam, I’m Adam”.
2. Write a program to validate email addresses. Use a loop to go over each character, and find an @ sign, followed by two or more words separated by dots. Examples of valid emails are [usera@vanier.college](mailto:usera@vanier.college) and [usera@vaniercollege.qc.ca](mailto:usera@vaniercollege.qc.ca) and invalid ones would be usera&vanier.college or usera@vanier. because of & and a period at the end respectively.