Seneca College of Applied Arts & Technology **January 14, 2019**

SCHOOL OF INFORMATION & COMMUNICATION TECHNOLOGY

JAC444 **Due date: January 24, 2019**

Workshop 1

Description:
The first assignment lets you practice basic concepts such as encapsulation and abstraction.

A *palindrome* is a word, phrase, number, or other sequence of characters which reads the same backward or forward. *Stack* is a simple data structure/container which acts as LIFO (last element in, would be the first element out.)

In this assignment, first, develop a **`Stack`** class. Second, develop a second Java class named **`Palindrome`** that in its **`main`** method, receives a string as a command-line argument, and then uses a **`Stack`** object to check whether the given string is a palindrome or not.

Marking Criteria and Tasks:
Please note that you should:

a- have appropriate indentation.
b- have proper file structures and modularization.
c- follow Java naming conventions.
d- document all the classes properly.
e- not have debug/useless code and/or file(s) left in assignment.
f- have good intra and/or inter class designs.

in your code!

Task: Developing and running the desired solution: **5 marks**.

Deliverables and Important Notes:
You are supposed to show up AND hand in your solution in person (run the solution and/or answer related Qs) in lab 3.

In case you don't show up OR hand in/run the required task in the lab, you could submit your final solution (described below) on the same due date but note that there would be a 50% penalty! Late submissions would result in additional 10% penalties for each day or part of it.

In this case, you should zip *only the Java files* to a file named after your Last Name followed by the first 3 digits of your student ID. For example, if your last name is **`Savage`** and your ID is **`354874345`** then the file should be named **`Savage354.zip`**. Finally email your zip file to me at reza.khojasteh@senecacollege.ca

Remember that you are encouraged to talk to each other, to the instructor, or to anyone else about any of the assignments, but the final solution may not be copied from any source.