COMP1161 – INTRODUCTION TO OBJECT ORIENTED PROGRAMMING

LAB 2 – USING PREDEFINED CLASSES

Refer to:

- the String class API - http://docs.oracle.com/javase/6/docs/api/java/lang/String.html
- the Math class API - http://docs.oracle.com/javase/6/docs/api/java/lang/Math.html

Focus on the Constructor and Method Summaries.

You are expected to use the appropriate methods from the above classes in your solution below.

Exercises

1. Create an application class (class with the main method) called Lab2.

Write the java code in main for the following requirements:

2. CREATING EMAIL ADDRESS
   a. Accept the first name and last name of a student. Output the student's full name.
   b. Change the last name of the student to "Jones". Output the student's full name.
   c. Create an email address for the student using his/her first and last name joined by a dot, with the extension uwimona.edu.jm.
      For example : *mary.jones@uwimona.edu.jm*

   Note that the email address must be in lower case. Output the email address.

3. VALIDATING EMAIL ADDRESS
   a. Accept the email address of a UWI student. Change to lower case and remove all spaces.
   b. Determine and output if it is a valid UWI email address. A UWI email address ends with the extension - *@uwimona.edu.jm* and a dot(.) that comes before *"@uwimona.edu.jm"* must be included.
   c. Output the student's first and last name from the email address if it is valid.

4. USING MATH CLASS
   Given the variables a, b, c and d, declare and initialize with the values 12, 9, 10 and -14.678 respectively. Use appropriate methods from the Math class to determine the following:

   Write your code in Lab2 class. Create variables as needed.
   a) Output the larger value, given c and b.
   b) Output the result of a^c.
   c) Output the absolute value of d.