**LEBANESE AMERICAN UNIVERSITY**

**School of Arts and Science**

**Department of Computer Science and Mathematics**

**CSC 243: Introduction to Object Oriented Programming**

**Fall 2014**

**Lab II**

**Problem 1 [Problem1.java]:**

Write a program that reads the name of a student (String) followed by three grades (Integers). Use a Scanner to read the input. The program should then compute the average of the student and print it on the screen. The program output should look as follows:

Please enter the name of the student:  
Jon Snow  
Please enter the first grade:  
80  
Please enter the second grade:  
90  
Please enter the third grade:  
86  
Jon Snow got the following grades on his exams:  
Exam 1: 80  
Exam 2: 90  
Exam 3: 86

The average of Jon Snow is 85.33

**Problem 2 [Problem2.java]:**

Assume you are going on vacation to Hawaii. While waiting on the plane, you recorded the time it takes to travel from Lebanon to Hawaii using hours, minutes and seconds but now you want to write a program that converts this time into seconds only. To do so, your program should read the time you recorded in terms of hours, minutes and seconds (Integers) and then convert it into seconds. For example, your program output could be as follows:

Please enter the number of hours:  
1  
Please enter the number of minutes:  
1  
Please enter the number of seconds:  
1  
1 Hour(s) 1 Minute(s) 1 Second(s) is equivalent to 3661 Second(s).

**Problem 3 [Problem3.java]:**

Write a program that reads a temperature in Celsius (Integer) then prints the temperature value in Fahrenheit (1.8 x Celsius + 32). A sample output could be as follows:

Please enter a Celsius value:  
20  
20 degrees Celsius is 68 degrees Fahrenheit

**Note:** The output should be an integer so you should use casting.

**Problem 4 [Problem4.java]:**

Write a program that reads a number (Integer) then prints the square of that number. A sample output could be as follows:

Please enter a number:  
3

3^2 = 9

**Problem 5 [Problem5.java]:**

Write a program that reads a number (float) y then prints y-2 (y-2 = 1 / y2). A sample output could be as follows:

Please enter a number:  
5

5^-2 = 0.04