CS 101 Introduction to ComputING

Section G

Assignment 4 – WRITING PSEUDOCODES WITH LOGICAL AND OR

DUE: SATURDAY 27, September, 2014.

**note:** You have to write the pseudo codes on paper. Typed pseudo codes will **not** be accepted.

**PROBLEM 1**

Write pseudocode for a program which takes 3 integer values, a b c, as input and prints their sum. However, if one of the values is the same as another of the values, it does not count towards the sum. For example, if 1,2,3 is input then the system should output 6. If 2,2,3 is input then the system should output 3.

**PROBLEM 2**

Write pseudocode for a program that inputs numbers from the user and in the end prints their sum and product. The program stops when the product of the numbers exceeds 500 and also the sum exceeds 5000. Think carefully on how you should initialize the product variable.

**PROBLEM 3**

Input numbers from the user till the sum of the numbers is greater than 100 and the input number is less than 80 but greater than 50 and it is either divisible by two or divisible by three.

**PROBLEM 4**

Generate a sequence of 50 numbers, so that a number at an even position is the sum of the previous 3 numbers and a number at the odd position is the sum of the previous two numbers. You can begin the sequence with 0 1 1. (The first number is at position 1, which is an odd position):

0 1 1 2 3 6 9 18 ….

**PROBLEM 5**

You are driving a little too fast, and a police officer stops you. Write pseudocode to input the speed and date and compute the result, encoded as an integer value: 0=no ticket, 1=small ticket, 2=big ticket. If speed is 60 or less, the result is 0. If speed is between 61 and 80 inclusive, the result is 1. If speed is 81 or more, the result is 2. If it is your birthday on that day, your speed can be 5 higher in all cases.