Homework – Day 1

Draw the flowchart for the following problems: (Draw the flowchart on your notebook)

Problem 1

You are given the lengths of 3 sides of a valid triangle. You need to print any one of the following outputs depending on the triangle's nature.

Print 1, if the triangle is equilateral

Print 0, if it's isosceles

Print -1, if it's scalene

Note: Following are the definitions: -

Equilateral: A triangle with all sides of equal length.

Isosceles: A triangle with two sides of equal length and two angles of equal measure.

Scalene: A triangle with no sides of equal length1

Problem 2:

You are given a single positive integer, N. You need to calculate and print the sum of all even numbers till N(inclusive)

Problem 3:

You are given two numbers. You need to calculate and print their greatest common divisor (GCD).

Problem 4:

You are given a single positive integer, N. You need to find and print whether N is Prime or not.

Problem 5:

You are given a single non-negative integer, N. You need to print all numbers that:

(i) occur in the range 0 to N (both inclusive)

(ii) are a part of the fibonacci sequence

Draw a flowchart for this process

Note 1: The first two terms of the fibonacci sequence are 0 and 1

****** The End *************