

Informatics Institute of Technology

4COSC006C: Programming Principles 01 [Design]

Tutorial 4 – Flowcharts Repetition II

1. Input a series of positive (≥ 0) numbers, ended by a negative one. Add up the numbers, and print the total. The negative one is not to form part of the sum.
2. A supervisor in a retail clothing store wants to acknowledge high-achieving sales people. Design a flowchart for the following.

A program that continuously accepts each sales person's first and last names and the number of shifts worked in a month, number of transactions completed this months and the dollar value of those transactions. Display each sales person's name with a productivity score, which is computed by first dividing dollars by transactions and dividing the result by shifts worked. Display three asterisks after the productivity score if it is 50 or higher.

Giving "XXXX" as the first name would indicate that there are no more sales person's data to be processed.

3. Design an algorithm that will prompt for the time expressed in 2400 format (eg: 2305 hours), convert it to 12-hour format (11.05pm) and display the new time to the screen. Your program is to repeat the process until a sentinel time of 9999 is entered.
4. Write an algorithm to display the hours and minutes upto 11 hours and 59 minutes. The expected output is given below.

Hours	minutes
0	0
0	1
0	2
0	3
...	
0	59
1	0
1	1
1	2
...	
1	59
2	0
...	
11	59

as far as 11 hours 59 mins.