

COP2250 Assignment 6

Purpose of assignment

Purpose of this assignment is for you to understand:

- (a) Looping in general,
- (b) The while loop in particular
- (c) Nested for loop

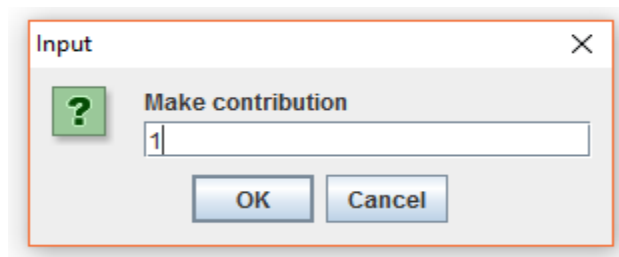
The assignment

The XYZ School wants to take its grade 10 students on a trip. The cost of the trip is \$5,000.00. The school has only thirty days in which to collect the funds in order to go on the trip. Design a class called **SchoolContribution** that creates a contribution account. In your design incorporate the following:

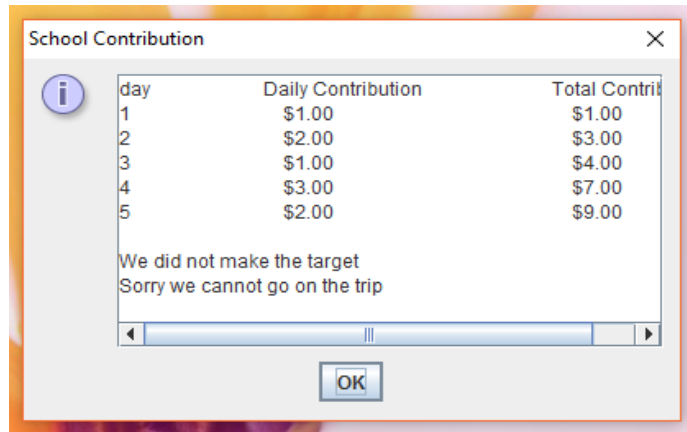
- A mutator method called **totalContribution(..)** that accepts and accumulates the daily contributions.
- A Boolean method called **hasMoreTime()** that determines if more time is available in which to reach the targeted amount.
- A Boolean method called **needMoreMoney()** that determines if more contribution is needed to meet the target.
- A Boolean method called **metTarget()** that reports if target has been met. This must be based on meeting the target within the time frame.
- A method called **getTotalContribution()** that returns the total contribution.
- A method called **toString()** that returns the result.

Write a test class called **TestContribution** that generates the daily contributions. It keeps asking for contributions until it determines that either the targeted amount of contribution is met, or the time allotted to collecting the amount of money expires. In either case it displays the amount of money collected each day, and the total amount accumulated over the period.

Example of a typical input screen



This is an example of an output for a different set of criteria that did not meet a given goal.



This is an example of an output for a different set of criteria that met a given goal.

