**Problem 1: School Grade Average Calculation**

# Restated Problem

Calculate the average grade of the student using the marks from across their courses.

# General Model

* Number of courses they have taken
* Input the marks for each course
* Calculate the overall average of the student
  + (Sum of marks) / number of courses
* Display the results

# Detailed Steps

* Declare the storage (variables)
  + numberOfCourses as integer
  + inputMark as integer
  + overallAverage as float
  + sumOfMarks as integer
* Input of Marks
  + Prompt for mark
  + Accumulate the input mark to sum
  + Increment the number of courses
  + Repeat until all marks have been entered
* Calculate the average
  + overallAverage = sumOfMarks / numberOfCourses
* Display the result
  + Output message containing the following:
    - overallAverage, numberOfCourses

# PseudoCode

DECLARE numberOfCourses as Integer

DECLARE inputMark as Integer

DECLARE sumOfMarks as Integer

DELCARE overallAverage as Float

SET numberOfCourses = 0

SET sumOfMarks = 0

SET overallAverage = 0

FOR EACH Mark

SET inputMark = PROMPT “Enter course mark”

SET sumOfMarks = sumOfMarks + inputMark

SET numberOfCourses = numberOfCourses + 1

END FOR EACH

SET overallAverage = sumOfMarks / numberOfCourses

DISPLAY “The students has an overallAverage for the numberOfCourse courses.”