

LAB TASK 07 - CLASSES-01

Problem 1:

You have to create a class, named ***Student***, representing the student's details. Create setter and getter functions for each element; that is, the class should have *default constructor* and *parameterized constructor* along with the following functions:

getAge, setAge
getFirstName, setFirstName
getLastName, setFastName
getStandard, setStandard

Also, you have to create another method **toString()** which returns the string consisting of the above elements, separated by a comma(.). You can refer to string stream for this.

Sample Input:

15
john
carmack
10

Sample Output:

15
carmack, john
10

15,john,carmack,10

Problem 2:

Kristen is a contender for valedictorian of her high school. She wants to know how many students (if any) have scored higher than her in the exams given during this semester.

Create a class named ***Student*** with the following specifications:

Number of student ***n*** in Kristen class

An instance variable named ***scores*** to hold a student's exam scores.

A void input() function that reads integers and saves them to ***scores***.

A calculateTotalScore() function that returns the sum of the student's scores.

Input Format:

In the ***void Student::input()*** function, you must read **5** scores from user and save them to your ***scores*** instance variable.

Constraints: $1 \leq n \leq 100$ $0 \leq \text{examScore} \leq 50$ **Output Format:**

In the `int Student::calculateTotalScore()` function, you must return the student's total grade (the sum of the values in *scores*).

Sample Input:

The first line contains, the number of students in Kristen's class. The subsequent lines contain each student's 5 exam grades for this semester.

3

30 40 45 10 10

40 40 40 10 10

50 20 30 10 10

Sample Output:

1

Explanation:

Kristen's grades are on the first line of grades. Only **1** student scored higher than her.