

HOMEWORK GOAL

This is an individual homework grade. The assignment is to write a Student class that will be tested by the Test program driver that I provide for you in this assignment.

PROGRAM REQUIREMENTS

You will add the class Student to the program by defining the class and testing it. A student has a **first name** and a **last name** (strings) and 3 **test** grades. Include gets and sets as needed for this assignment as described below.

ADDITIONAL INFORMATION

- Test your class with the provided program code below.
- You will need to write both constructors
 - One constructor takes 5 parameters as show in the example to copy in as the object's initial values
 - Another constructor, the default with no parameters, will set the first name and last name to **"unknown"** and the three tests values to **0**.
- You will need to only write the gets/sets as needed for this program solution.
- You will note that the constructor will be able to call whatever functions or logic is needed to compute the average of the three test grades.
- getFullName should return a string with the student's lastname, firstname. For example, if the student's data are "Beth" and "Allen", it should return "Allen, Beth"

TO TURN IN

Turn in a copy of a single **Student.java** file containing only your Student class solution to Canvas. PLEASE MAKE SURE THE PACKAGE NAME in this program is deleted or commented out before turning in the file. I will run it with my test program.

```
public class StudentTester {
    /**
     * main entry to the test program
     * @param args command line arguments, unused at this time
     * This test program creates two student objects, named student1 and student2, and uses them to fill with
     * data and test the get operations developed for this assignment.
     */
    public static void main(String[] args)
    {
        Student student1 = new Student("Beth", "Allen", 100, 100, 100); // fill with constructor
        Student student2 = new Student(); // will be filled with set methods

        student2.setFirstName("Bob");
        student2.setTestGrades(80,85,82);
        System.out.println("Program 1 - uses hardcoded statements to set a student's data.");
        System.out.println("The two Student's names and averages are: ");

        System.out.println(student1.getFullName() + ": " + student1.getAverage());
        System.out.println(student2.getFullName() + ": " + student2.getAverage());
    }
}
```