## ICS 102 - Introduction to Computing <br> Fall Semester 053 <br> Homework \# 3

Solve the following problems:

1. Design and implement the Money class problem discussed in Problem Solving 4.
2. Write a Student class that has:

- The instance variables: id, name, and grades of 4 quizzes.
- A class variable called numberOFStudents, which is a counter of the number of students.
- A class variable called sum, which is the sum of all the grades of all the students.
- Appropriate constructors.
- Three accessor methods.
- The methods maxGrade, minGrade, and averageGrade that respectively return the maximum, minimum, and the average of the 4 quiz grades.
- A mutator method to modify the grade of a particular quiz.
- An equals method which compares if the average grade of two students are equal.
- A method which returns the number of students.
- A Boolean method called isAboveAverage which returns true if the average of the students is above the overall average otherwise it returns false.
- A toString method that returns a string of
o Id
o Name
o The grades of all the 4 quizzes

3. Write a proper driver class to test the above two classes.
