ICS 102 - Introduction to Computing Fall Semester 053 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 guizzes.
- 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
 - \circ Id
 - o Name
 - \circ $\;$ The grades of all the 4 quizzes $\;$
- 3. Write a proper driver class to test the above two classes.