Problem 1 Write a class that simulates the behavior of a coin changer. Instead of pouring a container of coins into a hopper, the user will provide the number of each kind of coin as input data. The inputs are:

1. The number of pennies
2. The number of nickels
3. The number of quarters
4. The number of dimes
5. The number of quarters.

You need to provide methods to set each of the above. For example `setDimes(int dim)`.

The output is the value of the coins in dollars and cents. You should define methods `findCentsValue()` (computes the total value of all the coins in cents), `findDollars()` (computes the total value in cents divided by 100), `findChange()` (computes the total value in cents modulo 100; i.e. the remainder).

You should write an application class to test your coin changer class. Hand in your code (for both classes) and sample output.

Problem 2 Children in the U.S. sometimes for fun speak in “Pig Latin.” Each word in the sentence is modified as follows: If the first sound is a consonant sound, put it at the end of the word and add “ay” to it. Thus “cat” becomes “atay.” Thus:

second letter to the end of the word + first letter of word + “ay”

In Java, we can use the methods `substring()` and `charAt()` and execute:

```java
word.substring(1) + word.charAt(0) + "ay"
```
Your task is to write a class PigLatin and demonstrate how it works. The class should have a string variable to store the word. It should have a constructor PigLatin(String word) which takes a string as an argument and sets the internal string variable to be that string. It should have a method translateWord() which returns the Pig Latin version of a word.

You should write an application class to test the pig latin class. Hand in both your code (for the two classes) and sample output.

Problem 3 This problem involves developing a program for use by the New Jersey Department of Motor Vehicles. You are to create the following classes:

1. Person which has the fields name and social security number.
2. Ticket which has the fields name, date, location, arresting officer, points.
3. DrivingRecord which has the fields person and a vector field holding that person’s tickets. It should also have a method for computing total number of points.

You should write a driver class to test these classes for an individual. Then print out both your code for all the classes and sample output.