

CMPE 101 - Intermediate Programming

Assignment-05

Worth 5% of the assignment mark!

Deadline: 23:50 Friday, March 18

In your assignment, explain your code with *comments*. Without *comments*, your assignment will not be marked. All class and method names must be used according to OOP concept (instance variables must be **private**).

Problem Statement

In this assignment, you are asked to define a class according to class definition concepts of OOP. Write a class (don't define the same class that we have defined during lecture as examples) that it has at least **five** instance variables. Because there are five instance variables, you need to define at least 6 (including the no argument constructor) overloaded constructors. Because instance variables are private, you need to write public accessor and mutator methods. Don't forget to write the toString() method. While writing overloading constructor, you should have control statements that check if given parameters are valid or not. In case, if user inputs incorrect data, your program must be terminated with related warning messages.

Also, your class should have a method that asks interactive questions from a user. For example, if you have defined a class about a country, then your method works as follow: (suppose it has five properties)

```
//
What is name of your contry?
Turkey
What is the biggest city of your country?
Istanbul
What is the name of the capital city?
Ankara
What is the population ?
78 Milyon
What is the area?
```

About 815,000 Squire KM

The general information of this country is:

You must test your class in a different class and create objects with using all constructors. Test all objects one by one with updating instance variable data. You may improve your class with additional properties and methods.

Note: you are not allowed to use any IDE tools such Eclipse!.