**CS 131 Exercises**

**C#—A Beginner’s Guide**

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**CS 131 Exercises - Chapter 8 : Object Oriented Programming**

**Exercise 1.** In a new console project, create a new class called City.

* Add a private field of type string called ‘name’ and a private field of type int called ‘population’.
* Set up the City constructor to initialize the name and population fields with parameter values.
* Create a public method called GetCity() that returns the name field.
* Create a public method called GetPopulation() that returns the population value.
* In the Main() method, create an instance of City and display the city name and population by calling the GetPopulation and GetCity methods.

**Exercise 2.** In your City console project, modify the City class definition.

* Add a new private string field named ‘country’.
* Add a public property named Country to access the private field. Make the property read only.
* Modify the class constructor, adding a parameter to initialize the country field.
* In the Main() method, create an instance of City and display the city name and population values; display the country value using the Country property.

**Exercise 3.** In your City console project, modify the City class definition.

* Define a static method that displays an information message “City Info Version 1.0” to the console.
* In the Main() method, call the method without creating a City object. Verify the information message is displayed correctly.