

Exercise 2.72 Write a mutator method called **setAge** that takes a single parameter of type **int** and sets the value of a field called **age**.

Exercise 2.73 Write a method called **printDetails** for a class that has a field of type **String** called **name**. The **printDetails** method should print out a string of the form “The name of this person is”, followed by the value of the **name** field. For instance, if the value of the **name** field is “Helen”, then **printDetails** would print:

The name of this person is Helen

If you have managed to complete most or all of these exercises, then you might like to try creating a new project in BlueJ and making up your own class definition for a **Person**. The class could have fields to record the name and age of a person, for instance. If you were unsure how to complete any of the previous exercises, look back over earlier sections in this chapter and the source code of **TicketMachine** to revise what you were unclear about. In the next section, we provide some further review material.

2.20

Reviewing a familiar example

By this point in the chapter, you have met a lot of new concepts. To help reinforce them, we shall now revisit a few in a different but familiar context. Along the way, though, watch out for one or two further new concepts that we will then cover in more detail in later chapters!

Open the *lab-classes* project that we introduced in Chapter 1, and then examine the **Student** class in the editor (Code 2.9).

Code 2.9

The **Student** class

```
/**
 * The Student class represents a student in a student administration system.
 * It holds the student details relevant in our context.
 *
 * @author Michael Kölling and David Barnes
 * @version 2016.02.29
 */
public class Student
{
    // the student's full name
    private String name;
    // the student ID
    private String id;
    // the amount of credits for study taken so far
    private int credits;
```

Code 2.9
continuedThe **Student**
class

```
/**
 * Create a new student with a given name and ID number.
 */
public Student(String fullName, String studentID)
{
    name = fullName;
    id = studentID;
    credits = 0;
}

/**
 * Return the full name of this student.
 */
public String getName()
{
    return name;
}

/**
 * Set a new name for this student.
 */
public void changeName(String replacementName)
{
    name = replacementName;
}

/**
 * Return the student ID of this student.
 */
public String getStudentID()
{
    return id;
}

/**
 * Add some credit points to the student's accumulated credits.
 */
public void addCredits(int additionalPoints)
{
    credits += additionalPoints;
}

/**
 * Return the number of credit points this student has accumulated.
 */
public int getCredits()
{
    return credits;
}

/**
 * Return the login name of this student. The login name is a combination
 * of the first four characters of the student's name and the first three
 * characters of the student's ID number.
 */
```