

- **13.4** (*Display calendars*) Rewrite the `PrintCalendar` class in Listing 6.12 to display a calendar for a specified month using the `Calendar` and `GregorianCalendar` classes. Your program receives the month and year from the command line. For example:

```
java Exercise13_04 5 2016
```

This displays the calendar shown in Figure 13.9.

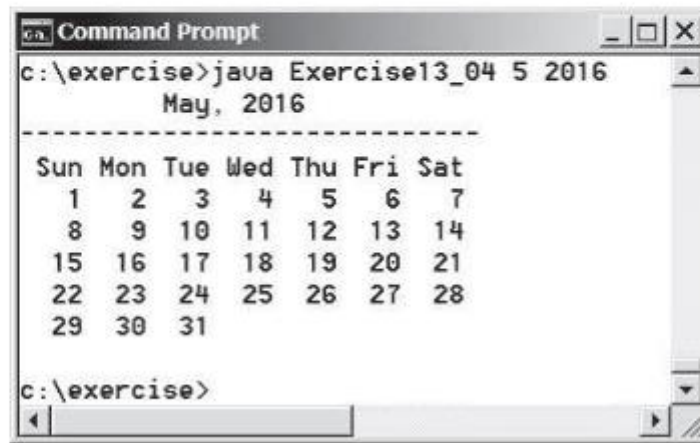


FIGURE 13.9 The program displays a calendar for May 2016.

You also can run the program without the year. In this case, the year is the current year. If you run the program without specifying a month and a year, the month is the current month.

Sections 13.4–13.8

- *13.5** (*Enable `GeometricObject` comparable*) Modify the `GeometricObject` class to implement the `Comparable` interface, and define a static `max` method in the `GeometricObject` class for finding the larger of two `GeometricObject` objects. Draw the UML diagram and implement the new `GeometricObject` class. Write a test program that uses the `max` method to find the larger of two circles and the larger of two rectangles.
- *13.6** (*The `ComparableCircle` class*) Define a class named `ComparableCircle` that extends `Circle` and implements `Comparable`. Draw the UML diagram and implement the `compareTo` method to compare the circles on the basis of area. Write a test class to find the larger of two instances of `ComparableCircle` objects.
- *13.7** (*The `Colorable` interface*) Design an interface named `Colorable` with a `void` method named `howToColor()`. Every class of a colorable object must implement the `Colorable` interface. Design a class named `Square` that extends `GeometricObject` and implements `Colorable`. Implement `howToColor` to display the message `Color all four sides`.
Draw a UML diagram that involves `Colorable`, `Square`, and `GeometricObject`. Write a test program that creates an array of five `GeometricObjects`. For each object in the array, display its area and invoke its `howToColor` method if it is colorable.
- *13.8** (*Revise the `MyStack` class*) Rewrite the `MyStack` class in Listing 11.10 to perform a deep copy of the `list` field.