1 **import** javax.swing.\*;

2

3 **public** c**l**ass PhoneBook

4 {

5 **private** String[] name;

6 **private** PhoneNumbers[] numbers;

7

8 **public** PhoneBook()

9 {

10 name = **new** String[3];

11 numbers = **new** PhoneNumbers[3];

12

13 **for**(**int** i = 0; i < name.length; i++)

14 {

15 name[i] = JOptionPane.showInputDialog("enter your name");

16 numbers[i] = **new** PhoneNumbers(i);

17 }

18 }

19 **public** **void** showAll()

20 {

21 **for**(**int** i = 0; i < name.length; i++)

22 {

23 System.out.println("\nName: " + name[i]);

24 numbers[i].show();

25 }

26 }

27

28 **private** **class** PhoneNumbers **//an inner class**

29 {

30 **private** String home;

31 **private** String cell;

32 **private** String office;

33

34 **public** PhoneNumbers(**int** i)

35 {

36 home = JOptionPane.showInputDialog("enter " + name[i] +

37 "'s HOME number");

38 cell = JOptionPane.showInputDialog("enter " + name[i] +

39 "'s CELL number");

40 office = JOptionPane.showInputDialog("enter " + name[i] +

41 "'s OFFICE number");

42 }

43 **public** **void** show()

44 {

45 System.out.println("PhoneNumbers: home:" + home +

46 " cell:" + cell + " office:" + office);

47 }

48 } **//end of the inner class Phonenumbers**

49 }

**Figure 7.27 The class PhoneBook and its inner class PhoneNumbers.**