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

2 **import** java.text.NumberFormat;

3

4 **public** **class** ArraysAndLoops

5 {

6 **public** **static** **void** main(String[] args)

7 {

8 **double**[] price, salePrice;

9 String s;

10 **int** size;

11 NumberFormat fm = NumberFormat.getCurrencyInstance();

12 s = JOptionPane.showInputDialog("How many sale items?");

13 size = Integer.parseInt(s);

14 price = **new** double[size];

15 salePrice = **new** double[size];

16

17 for(**int** i = 0; i < size; i++)

18 {

19 s = JOptionPane.showInputDialog("Enter item " + (i + 1) +

20 " 's price");

21 price[i] = Double.parseDouble(s);

22 }

23

24 for(**int** i = 0; i < price.length; i++)

25 {

26 salePrice[i] = price[i] \* 0.9;

27 System.out.println("The sale price of item " + (i + 1) + " is " +

28 fm.format(salePrice[i]));

29 }

30 }

31 }

*User Inputs*:

5

10.00

20.00

30.00

40.00

50.00

*Program Outputs*:

The sale price of item 1 is $9.00

The sale price of item 2 is $18.00

The sale price of item 3 is $27.00

The sale price of item 4 is $36.00

The sale price of item 5 is $45.00

**Figure 6.5 The Application ArraysAndLoops, and a set of inputs and the corresponding outputs.**