1 import javax.swing.JOptionPane;

2

3 public class AssignmentMathAndDialogIO

4 {

5 public static void main(String[] args)

6 {

7 String s;

8 double area, radius;

9

10 JOptionPane.showMessageDialog(null, "Circle area and radius" +

11 "\n calculation program");

12 s = JOptionPane.showInputDialog("To calculate an area," +

13 "\n enter a radius");

14 radius = Double.parseDouble(s);

15 area = Math.PI \* Math.pow(radius, 2);

16 JOptionPane.showMessageDialog(null, "The area of a circle" +

17 " whose radius = " +

18 radius + "\n is " + area);

19

20 s =JOptionPane.showInputDialog("To calculate a radius" +

21 "\n enter an area");

22 area = Double.parseDouble(s);

23 radius = Math.sqrt(area / Math.PI);

24 JOptionPane.showMessageDialog(null, "The radius of a circle" +

25 " whose area = " +

26 area + "\n is " + radius);

27 }

28 }

**Figure 2.8 The Application AssignmentMathAndDialogIO.**