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// Exercise Editing a Program: Circle.java
// Program that calculates area, circumference
// and diameter for a circle.

// Java extension packages
import javax.swing.JOptionPane;

public class Circle {

    // main method begins execution of Java application
    public static void main( String args[] )
    {
        String input;    // string entered by user
        String result;   // output display string
        int radius;      // radius of circle

        // read from user as a string
        input = JOptionPane.showInputDialog( "Enter radius:" );

        // convert number from type String to type int
        radius = Integer.parseInt( input );

        result = "Diameter is " + ( 2 * radius ) +
            "\nArea is " + ( Math.PI * radius * radius ) +
            "\nCircumference is " + ( 2 * Math.PI * radius );

        // Display results
        JOptionPane.showMessageDialog(
            null, result, "Calculation Results",
            JOptionPane.INFORMATION_MESSAGE );

        System.exit( 0 ); // terminate application

    } // end method main
} // end class Circle
```