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// Exercise Editing Java source: OddEven.java
// Program that determines if a number is odd or even.

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

public class OddEven {

    // 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 number;       // number

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

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

        // initialize result to empty String
        result = "";

        if ( number % 2 == 0 )
            result = "Number is even.";

        if ( number % 2 != 0 )
            result = "Number is odd.";

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

        System.exit( 0 ); // terminate application

    } // end method main
} // end class OddEven

```