1 **import** java.math.BigInteger;

2 **import** javax.swing.\*;

3

4 **public** **class** FibonacciTerm

5 {

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

7 {

8 **int** n;

9 BigInteger temp;

10 BigInteger fnMinus1 = BigInteger.ONE;

11 BigInteger fn = BigInteger.ONE;

12 BigInteger longMaxValue = BigInteger.valueOf(Long.MAX\_VALUE);

13

14 String s = JOptionPane.showInputDialog("enter the term number");

15 n = Integer.parseInt(s);

16 **for**(**int** i = 3; i <= n; i++)

17 {

18 temp = fn;

19 fn = fnMinus1.add(fn);

20 fnMinus1 = temp;

21 }

22 System.out.println("f" + n + " = " + fn.toString());

23 **if**(fn.compareTo(longMaxValue) > 0)

24 {

25 System.out.println("Which EXCEEDS the maximum value of " +

26 "type long");

27 }

28 **else**

29 {

30 System.out.println("Which does NOT exceed the maximum value of " +

31 "type long");

32 }

33 }

34 }

**Figure 7.30 The application FibonacciTerm.**