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

2

3 **public** **class** StringProcessing

4 {

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

6 {

7 String s1, s2;

8 String[] sArray;

9 **int** nWords;

10

11 s1 = JOptionPane.showInputDialog("Enter a sentence, Please\n" +

12 "Don't begin it with Hello,\n" +

13 "don't include the word Tom.\n" +

14 "Hello will be removed, and \n" +

15 "Tom replaced with XXX.");

16 sArray = s1.split(" +"); **//stores each word in a separate element**

17 nWords = sArray.length; **//the number of words**

18

19 s2 = new String(s1);

20 **if**(s2.indexOf("Hello") == 0)

21 {

22 s2 = s2.substring(6);

23 }

24 s2 = s2.replaceAll("Tom", "XXX");

25

26 JOptionPane.showMessageDialog(null, "There are " + nWords +

27 " words in your sentence:\n" +

28 s1 + "\nThe revised sentence is:\n" +

29 s2);

30 }

31 }

**Figure 7.16 The application StringProcessing.**