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

2

3 **public** **class** MultipleCatchBlocks

4 {

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

6 {

7 String sa, sb;

8 **int** a = 0;

9 **int** b = 0;

10 **int** quotient = 0;

11 **int** remainder = 0;

12

13 **try**

14 {

15 sa = JOptionPane.showInputDialog("This program calculates " +

16 "a / b\nEnter the value of a" );

17 a = Integer.parseInt(sa); **//throws a NumberFormatException**

18 sb = JOptionPane.showInputDialog("Enter the value of b" );

19 b = Integer.parseInt(sb); **//throws a NumberFormatException**

20 quotient = a / b;

21 remainder = a % b;

22 } **//end of the try block**

23 **catch**(ArithmeticException e) **//process divide by zero**

24 {

25 JOptionPane.showMessageDialog(**null**, "Division by zero " +

26 "is undefined. \n" +

27 "\nThe program is ending");

28 System.exit(0);

29 } **//end of the first catch block**

30 **catch**(NumberFormatException e) **//process non-integer input**

31 {

32 JOptionPane.showMessageDialog(**null**, "Enter only digits " +

33 "for the operands." +

34 "\nThe program is ending");

35 System.exit(0);

36 } **//end of the second catch block**

37 JOptionPane.showMessageDialog(**null**, a + " / " + b + " = " +

38 quotient + ", with a " +

39 "remainder of " + remainder);

40 }

41 }

**Figure 10.6 The application MultipleCatchBlocks.**