1 **import** javax.swing.JOptionPane;

2 **import** java.text.NumberFormat;

3

4 **public** **class** SentinelWhileLoop

5 {

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

7 {

8 **double** balance = 1000.24;

9 **int** numOfDeposits;

10 **double** deposit, total, newBalance, averageDeposit;

11 String input;

12 NumberFormat us = NumberFormat.getCurrencyInstance();

13

14 System.out.println("Your beginning balance was: "+ us.format(balance));

15 numOfDeposits = 0;

16 total = 0.0;

17

18 input = JOptionPane.showInputDialog("Enter a deposit, -1 to end");

19 **while**( !input.equals("-1") ) **//input is not “-1”**

20 {

21 deposit = Double.parseDouble(input);

22 total = total + deposit;

23 numOfDeposits++;

24 input = JOptionPane.showInputDialog("Enter a deposit, -1 to end");

25 }

26

27 balance = balance + total;

28 averageDeposit = total / numOfDeposits;

29

30 System.out.println("The total of the " + numOfDeposits +

31 " deposits is "+ us.format(total));

32 System.out.println("The average deposit was: " +

33 us.format(averageDeposit));

34 System.out.println("Your new balance is: " + us.format(balance));

35 }

36 }

**Inputs**

20.10

30.20

40.30

-1

**Outputs**

Your beginning balance was: $1,000.24

The total of the 3 deposits is $90.60

The average deposit was: $30.20

Your new balance is: $1,090.84

**Figure 5.14 The console application SentinelWhileLoop and the output it produces.**