```java
import java.text.NumberFormat;
import java.util.Scanner;

public class PaintCost {

    public static void main(String[] args) {

        /*
         * This program will calculate the cost to paint a house
         */
        double houseLengthFeet;
        double houseLengthInches;
        double houseWidthFeet;
        double houseWidthInches;
        double houseHeightFeet;
        double houseHeightInches;
        double windowLengthFeet;
        double windowLengthInches;
        double windowWidthFeet;
        double windowWidthInches;
        double doorLengthFeet;
        double doorLengthInches;
        double doorWidthFeet;
        double doorWidthInches;
        double sqFtCost;
        double sqFtPeak;
        double sqFtNormal;
        double sqFtWindows;
        double sqFtDoors;
        double sqFtTotal;
        int windowNumber;
        int doorNumber;

        Scanner in = new Scanner(System.in);
        NumberFormat formatter = NumberFormat.getCurrencyInstance();

        //User enters the width of the house, width is calculated in feet
        System.out.print("Enter the width of the house in feet without the remainder of inches: ");
        houseWidthFeet = in.nextDouble();
        System.out.print("Enter the remaining inches in the width of the house: ");
        houseWidthInches = in.nextDouble();
        houseWidthFeet += houseWidthInches/12;

        //User enters the length of the house, length is calculated in feet
        System.out.print("Enter the length of the house in feet without the remainder of inches: ");
        houseLengthFeet = in.nextDouble();
        System.out.print("Enter the remaining inches in the length of the house: ");
        houseLengthInches = in.nextDouble();
        houseLengthFeet += houseLengthInches/12;

        //User enters the height of the house, height is calculated in feet
```

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52          System.out.print("Enter the height of the house in feet without the
  remainder of inches: ");
53          houseHeightFeet = in.nextDouble();
54          System.out.print("Enter the remaining inches in the height of the house: ");
55          houseHeightInches = in.nextDouble();
56          houseHeightFeet += houseHeightInches/12;
57
58          //User enters the width of the windows, width is calculated in feet
59          System.out.print("Enter the width of the windows in feet without the
  remainder of inches: ");
60          windowWidthFeet = in.nextDouble();
61          System.out.print("Enter the remaining inches in the width of the windows:
  ");
62          windowWidthInches = in.nextDouble();
63          windowWidthFeet += windowWidthInches/12;
64
65          //User enters the length of the windows, length is calculated in feet
66          System.out.print("Enter the length of the windows in feet without the
  remainder of inches: ");
67          windowLengthFeet = in.nextDouble();
68          System.out.print("Enter the remaining inches in the length of the windows:
  ");
69          windowLengthInches = in.nextDouble();
70          windowLengthInches += windowLengthInches/12;
71
72          //User enters the width of the doors, width is calculated in feet
73          System.out.print("Enter the width of the doors in feet without the remainder
  of inches: ");
74          doorWidthFeet = in.nextDouble();
75          System.out.print("Enter the remaining inches in the width of the doors: ");
76          doorWidthInches = in.nextDouble();
77          doorWidthFeet += doorWidthInches/12;
78
79          //User enters the length of the doors, length is calculated in feet
80          System.out.print("Enter the length of the doors in feet without the
  remainder of inches: ");
81          doorLengthFeet = in.nextDouble();
82          System.out.print("Enter the remaining inches in the length of the doors: ");
83          doorLengthInches = in.nextDouble();
84          doorLengthFeet += doorLengthInches/12;
85
86          //User enters the number of windows
87          System.out.print("Enter the number of windows: ");
88          windowNumber = in.nextInt();
89
90          //User enters the number of doors
91          System.out.print("Enter the number of doors: ");
92          doorNumber = in.nextInt();
93
94          //User enters the cost the painter charges per square foot in dollars
95          System.out.print("Enter the cost the painter charges per square foot in
  dollars: ");
96          sqFtCost = in.nextDouble();
```

```
 97
 98         //Calculate the square footage of the peak sides
 99         sqFtPeak = (houseLengthFeet * houseWidthFeet) + ((1/2) * (houseLengthFeet *
    (houseHeightFeet - houseWidthFeet)));
100
101         //Calculate the square footage of the normal sides
102         sqFtNormal = houseLengthFeet * houseWidthFeet;
103
104         //Calculate the square footage of the windows
105         sqFtWindows = windowLengthFeet * windowWidthFeet;
106         sqFtWindows = sqFtWindows * windowNumber;
107
108         //Calculate the square footage of the doors
109         sqFtDoors = doorLengthFeet * doorWidthFeet;
110         sqFtDoors = sqFtDoors * doorNumber;
111
112         //Find the total square footage of the house
113         sqFtTotal = (2 * sqFtPeak) + (2 * sqFtNormal);
114         sqFtTotal = sqFtTotal - sqFtWindows - sqFtDoors;
115
116         //Find the total cost of painting the house
117         sqFtCost = sqFtCost * sqFtTotal;
118         System.out.println("The total cost to paint the house is " +
    formatter.format(sqFtCost) + ".");
119
120
121     }
122
123 }
124
```