PaintCost.java

```
1 import java.text.NumberFormat;
 2 import java.util.Scanner;
 4 public class PaintCost {
 6
      public static void main(String[] args) {
 7
8
9
           * This program will calculate the cost to paint a house
10
11
          double houseLengthFeet;
12
          double houseLengthInches;
13
          double houseWidthFeet;
14
          double houseWidthInches;
15
          double houseHeightFeet;
16
          double houseHeightInches;
17
          double windowLengthFeet;
18
          double windowLengthInches:
19
          double windowWidthFeet;
20
          double windowWidthInches:
21
          double doorLengthFeet;
22
          double doorLengthInches;
23
          double doorWidthFeet;
24
          double doorWidthInches;
25
          double sqFtCost;
26
          double sqFtPeak;
27
          double sqFtNormal;
28
          double sqFtWindows;
29
          double sqFtDoors;
30
          double sqFtTotal;
31
          int windowNumber;
32
          int doorNumber;
33
34
          Scanner in = new Scanner(System.in);
35
          NumberFormat formatter = NumberFormat.getCurrencyInstance();
36
37
          //User enters the width of the house, width is calculated in feet
38
          System.out.print("Enter the width of the house in feet without the remainder
  of inches: ");
39
          houseWidthFeet = in.nextDouble();
40
          System.out.print("Enter the remaining inches in the width of the house: ");
41
          houseWidthInches = in.nextDouble();
          houseWidthFeet += houseWidthInches/12;
42
43
44
          //User enters the length of the house, length is calculated in feet
45
          System.out.print("Enter the length of the house in feet without the
  remainder of inches: ");
46
          houseLengthFeet = in.nextDouble();
47
          System.out.print("Enter the remaining inches in the length of the house: ");
48
          houseLengthInches = in.nextDouble();
49
          houseLengthFeet += houseLengthInches/12;
50
51
          //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();
          System.out.print("Enter the remaining inches in the width of the windows:
61
  ");
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: ");
          windowLengthFeet = in.nextDouble();
67
          System.out.print("Enter the remaining inches in the length of the windows:
68
  ");
69
          windowLengthInches = in.nextDouble();
70
          windowLengthInches += windowLengthInches/12;
71
72
          //User enters the width of the doors, width is calculated in feet
          System.out.print("Enter the width of the doors in feet without the remainder
73
  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
          System.out.print("Enter the number of windows: ");
87
88
          windowNumber = in.nextInt();
89
90
          //User enters the number of doors
          System.out.print("Enter the number of doors: ");
91
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: ");
          sqFtCost = in.nextDouble();
```

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```
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
           sqFtDoors = doorLengthFeet * doorWidthFeet;
109
           sqFtDoors = sqFtDoors * doorNumber;
110
111
           //Find the total square footage of the house
112
           sqFtTotal = (2 * sqFtPeak) + (2 * sqFtNormal);
113
114
           sqFtTotal = sqFtTotal - sqFtWindows - sqFtDoors;
115
116
           //Find the total cost of painting the house
           sqFtCost = sqFtCost * sqFtTotal;
117
           System.out.println("The total cost to paint the house is " +
118
   formatter.format(sqFtCost) + ".");
119
120
121
       }
122
123 }
124
```