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✔ CalculateLine ☆ Favorite

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Language/Type: Java [basics](#) [console output](#) [expressions](#) [variables](#) [interactive programs](#)**Author:** Nick Troccoli (added by Marty Stepp on 2017/04/10)

Write an interactive console program in a class named **CalculateLine** that calculates y coordinates on a line. First, it prompts the user for a slope m , and an intercept b (as seen in the line equation of the form $y = mx + b$). Then the program prompts the user for x values until the user enters a -1 . For each entered number, print the y value on that line for that entered x value. Here is a sample run of the program (user input is shown [like this](#)):

```
This program calculates y coordinates for a line.
Enter slope (m): 2
Enter intercept (b): 4
Enter x: 5
f(5) = 14
Enter x: 1
f(1) = 6
Enter x: -1
```

Type your Java solution code here:

```
1 import java.util.*;
2 public class CalculateLine
3 {
4     public static void main(String[] args)
5     {
6         System.out.println("This program calculates y coordinates for a line.");
7         run();
8     }
9     public static void run ()
10    {
11        Scanner kb = new Scanner(System.in);
12        System.out.print("Enter slope (m): ");
13        int slope = kb.nextInt();
14        System.out.print("Enter intercept (b): ");
15        int intercept = kb.nextInt();
16        int yValue;
```

```

17     int xValue;
18     do
19     {
20         System.out.print("Enter x: ");
21         xValue = kb.nextInt();
22         if(xValue != -1)
23         {
24             yValue = slope * xValue + intercept;
25             System.out.println("f(" + xValue + ") = " + yValue);
26         }
27     }while(xValue != -1);
28 }
29 }
30
31
32
33

```

This problem asks for a **complete program**. This should essentially be contents you could put into a file and run outside of CodeStepByStep.



4 Indent



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