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1  /*
2   This program calculates the saving and investment amounts based
3   off of gross pay, saving rate, and investment rate all input
4   by the user.
5
6   This program calculates these values using methods in a separate
7   Java class named ZacharyStall_2_09_Calc. This class has three
8   private instance variables for the gross pay, savings rate, and
9   IRA investment rate.
10
11   Zachary Stall
12   Program #9, CS 1050, Section 2
13   jGRASP, Custom PC, Windows 10
14
15   Campestral - of or relating to fields or open country.
16
17   "The only place success comes before work is in the dictionary."
18   -Vince Lombardi (1913 - 1970)
19  */
20
21  public class ZacharyStall_2_09 {
22
23      static Toolkit tools = new Toolkit();
24
25      public static void main (String [] args){
26
27          // Create an instance of ZacharyStall_2_09_Calc.
28          ZacharyStall_2_09_Calc theMoney = new ZacharyStall_2_09_Calc();
29
30          double savingsMoney; // amount of money in savings
31          double iraMoney;     // amount of money in IRA
32          double sumOfMoney;    // amount of money in both accounts
33
34          // Explain the program to the user.
35          explain();
36
37          // Get the gross pay, savings rate, IRA rate from the user.
38          theMoney.getNumbers();
39
40          // Calculate the savings amount.
41          savingsMoney = theMoney.calcSavingAmount();
42
43          // Calculate the IRA amount.
44          iraMoney = theMoney.calcIraAmount();
45
46          // Calculate the sum in savings and IRA account.
47          sumOfMoney = savingsMoney + iraMoney;
48
49          // Print all the data to the console for the user.
50          outPut(theMoney, savingsMoney, iraMoney, sumOfMoney);
51      }
52
53      // Methods:
54      // *****
55
56      // Explanation of the program to the user.
57      public static void explain() {
58          System.out.println("Hello, this program will allow you to enter your:\n" +
59              "gross pay\n" +
60              "savings rate\n" +
61              "IRA investment rate\n" +
62              "\nThis program uses a seperate class to do all calculations.\n" +
63              "It will use the gross pay enterd, and calculate your savings and \n" +
64              "IRA investments based off of the perventages you input.\n" +
65              "Zachary Stall\n");
66      } // End explain
67
68      // *****

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69
70 // Prints all the data to the user on the console.
71 public static void outPut(ZacharyStall_2_09_Calc numbers,
72                           double moneySave,
73                           double moneyIra,
74                           double moneySum) {
75     numbers.printOut();
76     System.out.println(
77         "\nThe savings amount is: " + tools.leftPad(moneySave, 15, "$##,##0.00") +
78         "\nThe IRA amount invested is: " + tools.leftPad(moneyIra, 10, "$##,##0.00") +
79         "\nAmount in both accounts: " + tools.leftPad(moneySum, 13, "$##,##0.00"));
80 } // End outPut
81
82 } // End Class
```