

Tonny_Mutumba_s_09_Calc.java

```
1 /***
2 Tonny Mutumba
3 Assign #9
4 Eclipse
5 The truth will set you free but first it will piss you off.
6 by Pharrell Williams
7
8 *****/
9 import java.util.*;
10 import java.io.*;
11 import java.text.DecimalFormat;
12 public class Tonny_Mutumba_s_09_Calc {
13     //private internal fields
14     private double grossPay;
15     private double savingsRate;
16     private double iraInvestmentRate;
17
18     //Default constructors
19     public Tonny_Mutumba_s_09_Calc(){
20         grossPay = 0.0;
21         savingsRate = 0.0;
22         iraInvestmentRate = 0.0;
23     }
24
25     public Tonny_Mutumba_s_09_Calc(double grossPay, double
savingsRate, double iraInvestmentRate){
26         this.grossPay = grossPay;
27         this.savingsRate = savingsRate;
28         this.iraInvestmentRate = iraInvestmentRate;
29     }
30     //Prompting the User
31     public void promptUser(){
32         Scanner amount = new Scanner(System.in);
33
34         System.out.print("Please enter your Gross Pay: ");
35         double grossPay1 = amount.nextDouble();
36
37         System.out.print("Please enter your Saving Rate %: ");
38         double savingsRate1 = amount.nextDouble();
39
40         System.out.print("Please enter your IRA Investment Rate: ");
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41     double iraInvestmentRate1 = amount.nextDouble();
42
43     if (grossPay1 > 0 && savingsRate1 > 0 && iraInvestmentRate1 >
44         0){
45         this.grossPay = grossPay1;
46         this.savingsRate = savingsRate1;
47         this.iraInvestmentRate = iraInvestmentRate1;
48     }
49     //Appropriate output Result
50     public void outputResults(){
51         DecimalFormat money = new DecimalFormat("$0.00");
52         System.out.println("Your Gross Pay value is " + this.grossPay
53             +
54             "\nYour Savings Rate is " + this.savingsRate +
55             "\nYour IRA investment Rate is " +
56             this.iraInvestmentRate);
57         System.out.println("Saving Amount: " + getSavingAmount() +
58             "\nIRA Invesstment Amount: " +
59             getIraInvestmentAmount());
60         System.out.println("Total Savings and IRA amounts: " +
61             money.format(getIraInvestmentAmount()
62                 + getSavingAmount()));
63     }
64     //Returning Savings Amount
65     public double getSavingAmount(){
66         return this.grossPay * this.savingsRate / 100;
67     }
68     //Returning IRA investment Amount
69     public double getIraInvestmentAmount(){
70         return this.grossPay * iraInvestmentRate / 100;
71     }
72 }

```