

Mortgage.java

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1 /*
2   Java 1           Basic Mortgage calculator
3   Programmer:      Mike Brown
4   Date:            March 31, 2009
5   Program Name:    Mortgage.java
6   Purpose:         Calculate Monthly payments
7 */
8
9 //import statements import basic input capability
10 import java.io.*;
11
12 public class Mortgage
13 {
14
15     public static void main(String[] args) throws IOException
16     {
17         //declare variables
18         String totalLoan, percentInterest,numYears;
19         double loanAmount, interestRate,monthlyPayments;
20         int term;
21
22         BufferedReader dataIn = new BufferedReader(new
InputStreamReader(System.in));
23
24         // print prompts and get input
25         System.out.println("\t\t\t\t\tBasic Mortgage Calculator");
26         System.out.println();
27         System.out.print("\t\tPlease enter the total loan amount:
");
28         totalLoan = dataIn.readLine();
29         loanAmount = Double.parseDouble(totalLoan);
30         System.out.print("\t\tPlease enter the interest rate: ");
31         percentInterest = dataIn.readLine();
32         interestRate = Double.parseDouble(percentInterest);
33         System.out.print("\t\tPlease Enter the term of the loan in
months: ");
34         numYears = dataIn.readLine();
35         term = Integer.parseInt(numYears);
36
37         //call payEachMonth method to get monthly payment amount
38         monthlyPayments =
payEachMonth(loanAmount, interestRate, term);
39
40         //print results
41         System.out.println("\t\tYour total monthly payments are: "

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+ monthlyPayments);
42
43     }//end main
44
45     /**      payEachMonth method
46      *      This method will take 3 parameters (totalLoan,
47      *      rateOfInterest, and lengthOfLoan) and use them to calculate the
48      *      total monthly payments. The parameters get passed by
49      *      the caller in the form of
50      *      payEachMonth(laonAmount, interestRate, term)
51      *      The caller uses those variables to get the total
52      *      monthly charges. The payEachMonth method returns the double,
53      *      payPerMonth.
54      *
55      * @param totalLoan
56      * @param rateOfInterest
57      * @param lengthOfLoan
58      * @return
59      */
60     public static double payEachMonth(double totalLoan, double
61     rateOfInterest, int lengthOfLoan)
62     {
63         double interestPaid = (rateOfInterest/100)*totalLoan;
64         double totalAmountOfLoan = interestPaid + totalLoan;
65         double payPerMonth = totalAmountOfLoan / lengthOfLoan;
66         return payPerMonth;
67     }//end payEachMonth
68
69 }//end class
```