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Assignment #3

import java.text.DecimalFormat;

import java.util.Scanner;

public class assignment3

{

public static void main(String[] args)

{

//open scanner

Scanner input = new Scanner(System.in);

//input scans for loan amount

System.out.print("Enter loan amount, for example 120000.95: ");

double loan = input.nextDouble();

//input scans for years

System.out.print("Enter number of years as an integer, for example, 5: ");

int years = input.nextInt();

//close scanner

input.close();

//monthly payment

double monthly = loan/(years\*12);

//base interest rate

double interestRate = 5.000;

//Decimal format for hundreds place

DecimalFormat hund = new DecimalFormat("####0.00");

//Decimal format for thousands place

DecimalFormat thou = new DecimalFormat("####0.000");

//first print

System.out.println("Interest Rate Monthly Payment Total Payment");

//while loop of outputs

while(interestRate <= 8)

{

//formats monthlyPayment and totalPayment

String monthlyPayment = hund.format(monthly + (monthly\*interestRate\*0.01));

String totalPayment = hund.format(loan + (loan\*interestRate\*0.01));

//prints output with all proper formating

System.out.println(thou.format(interestRate) + "% " + monthlyPayment + " " + totalPayment);

interestRate = interestRate + 0.125;

}

}

}

