// Gavin Garner CS 317

// Monthly Payments

// This program calculates monthly payments on a loan

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

float loan, rate, numPay;

cout << "This program calculates monthly payments on a loan\n\n";

cout << "Enter the total amount of the loan: $";

cin >> loan;

cout << "\nEnter the interest rate in decimal form: ";

cin >> rate;

cout << "\nEnter number of payments: ";

cin >> numPay;

float plusRate = 1 + rate,

payment = ((loan \* (pow(plusRate, numPay))) / ((pow(plusRate,numPay))-1)) /100;

cout << "\nYour monthly payment: $" << payment;

return 0;

}

