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| Assignment Code | : | C.S.P0016 |
| Assignment Name | : | Printing Payments and Calculating Total Expenditure |
| Student Name | : | Le Thi Thanh Nhan |
| Time/Date | : | 17h00,10/11/2019 |

Approach

Count amount owed every month:

mortgage =mortgage\*(1+annual interestrate/1200)-payment

until mortage<payment then mortage=0;

Output the chart until mortage =0;

Source code

#include <stdio.h>

#include <conio.h>

int main()

{

    int month = 1;

    double annual, monthly;

    double payment, mortgage;

    printf("What is the value left on the mortgage?");

    scanf("%lf", &mortgage);

    printf("What is the annual interestrate of the loan, in percent?");

    scanf("%lf", &annual);

    monthly = annual / 1200;

    printf("What is the monthly payment?");

    scanf("%lf", &payment);

    if (payment <= mortgage \* monthly)

        printf("Not enought payment!!");

    else

    {

        printf("\nMonth\tPayment\tAmount Owed");

        do

        {

            if (mortgage >= payment)

            {

                mortgage = mortgage \* (1 + monthly) - payment;

                printf("\n%d\t%.2lf\t%.2lf", month, payment, mortgage);

            }

            else

            {

                mortgage \*= (1 + monthly);

                printf("\n%d\t%.2lf\t0", month, mortgage);

                mortgage = 0;

            }

            month++;

        } while (mortgage != 0);

    }

    getch();

    return 0;

}

Result

