

Mortgage Cash Flow Engine Test

Goal

The goal is to create a program that outputs a fixed rate mortgage payments table. This is a table that shows the amount of principal and interest that a borrower would pay if they took out a new mortgage. An example of this calculation and a payments table can be found at [Wolfram Alpha Mortgage](#):

Payments table:				
year	monthly payment	ending balance	yearly principal paid	yearly interest paid
1	\$921	\$196 291	\$3709	\$7338
2	\$921	\$192 442	\$3849	\$7198
3	\$921	\$188 448	\$3994	\$7053
4	\$921	\$184 304	\$4144	\$6903
5	\$921	\$180 004	\$4300	\$6747

The program can be written in any language though C# is preferred. Please do not use VBA/Excel.

Requirements

1. The application should accept the following input parameters (same as WolframAlpha)
 - a. Loan Amount (\$)
 - b. Loan Period (yrs)
 - c. Annual Percentage Rate (%)
2. The payment table should include the following values (same as WolframAlpha)
 - a. Year
 - b. Ending Balance
 - c. Yearly Principal Paid
 - d. Yearly Interest Paid
3. Implement the method to determine the payment directly, e.g. do not use a built in library like Microsoft.Financial.Pmt.