

## Mortgage Calculator

Welcome to your new role at our FinTech company! As part of your onboarding, you're tasked with developing a user-friendly mortgage calculator console application for our loan officers. This application will streamline the process of calculating monthly mortgage payments for our clients.





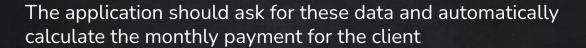




Here are the key features to consider:

Principal: The amount the client wishes to borrow. Annual Interest Rate: The yearly interest rate offered on the mortgage.

Duration: The duration of the mortgage in years.



Tip: to get the percentage monthly rate, you divide the annual interest rate by percentage and number of months in a year and to get the number of months from the duration you multiply it by number of months in a year.

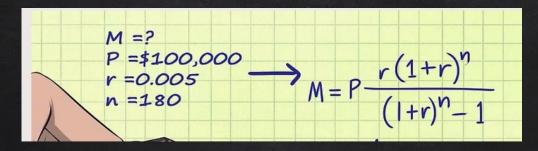








## Mortgage Calculator Formula





Where m is monthly payment value to be calculated p is the principal amount r is the rate and n is the duration of the loan





## Below is sample run and expected output

C:\Users\Skiru\.virtualenvs\titans-e9\_ANuCp\Scripts\python.exe C:\Users\Skiru\PycharmProjects\titans\morgagecalculator.py

Enter the principal amount: 100000

Enter the annual interest rate: 5

Enter the duration in years: 10

Your monthly payment is \$1,060.66





