Assignment-2 - Paying Debt off in a Year

**Paying Debt off in a Year:** Now write a program that calculates the minimum fixed monthly payment needed in order pay off a credit card balance within 12 months. By a fixed monthly payment, we mean a single number, which does not change each month, but instead, is a constant amount that will be paid each month.

In this problem, we will not be dealing with a minimum monthly payment rate.

The following variables contain values as described below:

* **balance** - the outstanding balance on the credit card
* **annualInterestRate** - annual interest rate as a decimal

The program should print out one line: the lowest monthly payment that will pay off all debt in under 1 year, for example:

**Lowest Payment:** 180

Assume that the interest is compounded monthly according to the balance at the end of the month (after the payment for that month I made.

The monthly payment must be a multiple of $10 and is the same for all months. Notice that it is possible for the balance to become negative using this payment scheme, which is okay. A summary of the required math is found below:

So your program only prints out one thing: the remaining balance at the end of the year in the format:

A summary of the required math is found below:

* **Monthly interest rate**= (Annual interest rate) / 12.0
* **Monthly unpaid balance** = (Previous balance) - (Minimum fixed monthly payment)
* **Updated balance each month** = (Monthly unpaid balance) + (Monthly interest rate x Monthly unpaid balance)

**Input Format:**

* The first line of the input contains the string, which has two numbers separated by space.

**Output Format:**

* Return the value of Remaining balance.

**Sample Input #1:**

3329 0.2

**Sample Output #1:**

Lowest Payment: 310

**Sample Input #2:**

4773 0.2

**Sample Output #2:**

Lowest Payment: 440