**Mortgager Pseudocode**

* Make a file.
* Ask the user for the amount borrowed, length of loan and interest rate as a percent.
* Allow user to input each of the following questions asked.
* Initialize a formula where the interest rate as a decimal is equal to what the user had input, divide that variable by 100, for the system to see this as a decimal, and then divide it again by 12 months.
* Initialize another formula where years converts to months by using the user input of their loan length and multiplying it by 12 months.
* Declare a variable similarly defined at the principal.
* Initialize the last formula of what the mortgage payment would be, which is equal to the monthly interest times one plus the monthly interest to what the user length of loan is. Divide all of that by one plus the monthly interest to the power of what the user length of loan is then minus one, finally multiply that by what the user amount borrowed is.
* Declare what the user’s monthly mortgage payment is to the second decimal point in the file created.
* Set up the “title bar” by outputting the principal, interest rate, years, and payment.
* For the counter control variable is equal to zero, make sure the counter control variable is less than or equal to the users’ input of their length of loan. Otherwise, keep incrementing the counter control variable.
* Inside the loop, initialize two formulas, such that one is for having the monthly interest, which is by multiplying another variable for principal by the variable that converts the user’s input for percent to a decimal, and setting a new control variable to zero, which would then equal that plus the monthly interest.
* Output according to the “title bar” created, with the variables of the counter control variable, which matches with the “Months” title, the variable that is similarly defined as principal, which matches with the “Principal” title, the variable for monthly interest, which matches with the “Interest” title, and the mortgage payment variable, which matches with the “Payment” title all into the file.
* Beyond the loop, output the total interest, which is defined as the variable for the monthly interest, and the total cost, which is defined as the monthly interest plus the principal.
* Tell the user the file name.