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CS210

10/5/24

Project 2: Pseudocode

Note: Upon writing my code, I will break these into separate files for organization purposes!

FUNCTION DisplayInputPrompt

PRINT "Welcome to Airgead Banking Investment Calculator!"

PRINT "Please enter the following information:"

END FUNCTION

FUNCTION CalculateAndDisplayBalances(initialInvestment, monthlyDeposit, annualInterest, years)

SET months = years * 12

SET balanceWithoutDeposits = initialInvestment

SET balanceWithDeposits = initialInvestment

PRINT "Year-End Balances Without Monthly Deposits:"

PRINT "Year\tBalance\t\tEarned Interest"

FOR year FROM 1 TO years

SET earnedInterest = 0

FOR month FROM 1 TO 12

SET interest = (balanceWithoutDeposits * (annualInterest / 100) / 12)

balanceWithoutDeposits = balanceWithoutDeposits + interest

earnedInterest = earnedInterest + interest

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END FOR
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PRINT year, balanceWithoutDeposits, earnedInterest
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END FOR

PRINT "Year-End Balances With Monthly Deposits:"

PRINT "Year\tBalance\t\tEarned Interest"

FOR year FROM 1 TO years

SET earnedInterest = 0

FOR month FROM 1 TO 12

SET total = balanceWithDeposits + monthlyDeposit

SET interest = (total * (annualInterest / 100) / 12)

balanceWithDeposits = balanceWithDeposits + monthlyDeposit + interest

earnedInterest = earnedInterest + interest

END FOR

PRINT year, balanceWithDeposits, earnedInterest

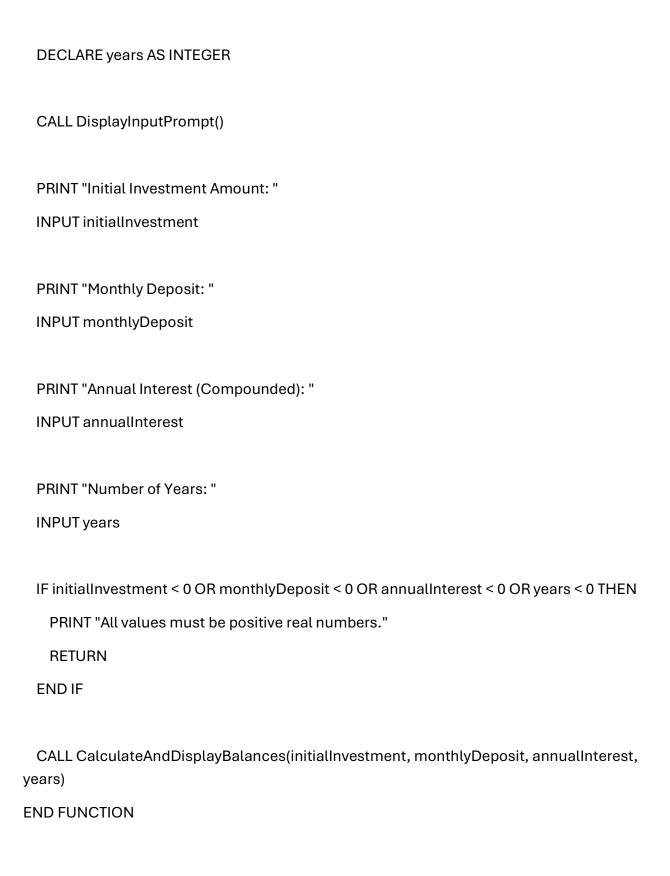
END FOR

PRINT "Press any key to continue..."

END FUNCTION

FUNCTION Main

DECLARE initialInvestment, monthlyDeposit, annualInterest AS REAL



I've written pseudocode before, but I've never truly used it in practice before writing a program. I cannot believe how much easier planning my program is. I feel silly for not actually using it before.