Project 2 Pseudocode

Name: Caleb Ewer

ID: 2409827

Description: Pseudocode for Project 2 and the functions of it.

Create a file for the account class.

Declare set and get initial account amount method

Declare set and get monthly amount method

Declare set and get rate

Declare set and get years

Declare set and get total

Declare set and get updated interest amount method

Declare private variables to use in the methods/class

Declare double initial amount

Declare double monthly deposit

Declare double interest rate

Declare integer years

Declare double total

Declare double updated interest amount

Create the methods

Create set initial amount, monthly amount, rate, and years by assigning the parameter value to the private variable

Create set total by assigning total with the deposit and amount

Create set updated interest by assigning updated interest with total times the rate after it has been divided by the months and divided by 100 for the percent

Create get initial amount, monthly amount, rate, years, total, and updated interest amount by returning the private variable

Create the main file

Declare variables used

Declare an object of the bank account class

Declare double initial amount

Declare double monthly deposit

Declare double annual interest

Declare integer years

Declare character continue

Declare integer months

Create a while loop for repeating the prompts

Set the while loop to continue till the user enters the letter to exit

Prompt the user to enter the initial amount and set it to initial amount

Prompt the user to enter the monthly deposit and set it to monthly deposit

Prompt the user for the years and set it to the number of years

Multiply the years by 12 and set it to months

Set the total

Set the interest

Check if monthly deposit is greater than zero

If the monthly deposit is greater than zero

Create a for loop to iterate as many times as there are months

Display the number of month

Display the initial amount

Display the deposited amount

Display the total amount

Display the interest amount

Display the closing amount

Set the total

Set the interest

Else

Create a for loop to iterate as many times as there are months

Display the number of month

Display the initial amount

Display the deposited amount

Display the total amount

Display the interest amount

Display the closing amount

Set the total

Set the interest

Ask the user whether or not to continue