Seth Barr

SNHU

Programming Languages

26 November 2023

Pseudocode

* Define the main class for InvestmentCalculatorApp
* Create a class: InvestmentCalculator that declares variables:
  + Investment amount
  + Annual interest rate
  + Investment period
* Create a constructor method to:
  + Declare the member values with input values
* Calculate compound interest:
* Using the compound interest formula, calculate the future investment
* Print the initial investment, interest rate, and investment period
* Print the value of the investment for each year
* Create an instance of the InvestmentCalculator class
* Create a user interface for the application
* Print a message and guidelines
* Prompt the user to enter:
  + Initial investment amount
  + Annual interest rate
  + Investment period in years
* Create input verification:
  + Check if user inputs are numbers
  + Check if the interest rate and investment period are positive numbers
  + If invalid input is detected, prompt the user to try again
* Calculate the investment growth:
  + Display the calculated value of the investment by calling the compound interest formula from the InvestmentCalculator class
* Display a menu with options:
  + Calculate again
  + Exit program
* Implement a loop to repeat the calculation or exit based on the user's choice