**Project 2: Pseudocode Outline**

1. **Start Program**
2. **Display Input Prompts**
   * Prompt user for InitialInvestmentAmount
   * Prompt user for MonthlyDeposit
   * Prompt user for AnnualInterest
   * Prompt user for NumberOfYears
   * Prompt user to "Press any key to continue…"
3. **Calculate Inputted Values**
   * Calculate Months from NumberOfYears (Months = NumberOfYears \* 12)
   * Convert AnnualInterest to a monthly interest rate (MonthlyInterestRate = AnnualInterest / 100 / 12)
4. **Initialize The Variables**
   * Set OpeningAmount to InitialInvestmentAmount
   * Set TotalAmount to OpeningAmount
   * Initialize YearEndBalancesWithoutDeposits list
   * Initialize YearEndEarnedInterestWithoutDeposits list
   * Initialize YearEndBalancesWithDeposits list
   * Initialize YearEndEarnedInterestWithDeposits list
5. **Calculate Balances Without Additional Monthly Deposits**
   * Loop over each year from 1 to NumberOfYears
     + Set YearOpeningAmount to InitialInvestmentAmount
     + Loop over each month of the year
       - Calculate MonthlyInterest (Interest = YearOpeningAmount \* MonthlyInterestRate)
       - Calculate ClosingBalance (ClosingBalance = YearOpeningAmount + MonthlyInterest)
       - Update YearOpeningAmount to ClosingBalance
     + Store ClosingBalance in YearEndBalancesWithoutDeposits
     + Calculate YearEndEarnedInterest (EarnedInterest = ClosingBalance - InitialInvestmentAmount)
     + Store EarnedInterest in YearEndEarnedInterestWithoutDeposits
6. **Calculate Balances With Additional Monthly Deposits**
   * Loop over each year from 1 to NumberOfYears
     + Set YearOpeningAmount to InitialInvestmentAmount
     + Loop over each month of the year
       - Add MonthlyDeposit to YearOpeningAmount
       - Calculate MonthlyInterest (Interest = YearOpeningAmount \* MonthlyInterestRate)
       - Calculate ClosingBalance (ClosingBalance = YearOpeningAmount + MonthlyInterest)
       - Update YearOpeningAmount to ClosingBalance
     + Store ClosingBalance in YearEndBalancesWithDeposits
     + Calculate YearEndEarnedInterest (EarnedInterest = ClosingBalance - InitialInvestmentAmount - MonthlyDeposit \* Months)
     + Store EarnedInterest in YearEndEarnedInterestWithDeposits
7. **Display Results**
   * Display "Balance and Interest Without Additional Monthly Deposits"
   * For each year in YearEndBalancesWithoutDeposits and YearEndEarnedInterestWithoutDeposits
     + Display the year, balance, and earned interest
   * Display "Balance and Interest With Additional Monthly Deposits"
   * For each year in YearEndBalancesWithDeposits and YearEndEarnedInterestWithDeposits
     + Display the year, balance, and earned interest
8. **End Program**