

BEGIN

// Step 1: Initialize and Display Welcome Message

DISPLAY "Welcome to the Airgead Banking Investment Calculator"

// Step 2: User Input

PROMPT "Enter initial investment amount: "

READ initial_investment

PROMPT "Enter monthly deposit: "

READ monthly_deposit

PROMPT "Enter annual interest rate (in %): "

READ annual_interest_rate

PROMPT "Enter number of years to invest: "

READ number_of_years

// Step 3: Calculate balance and interest without monthly deposits

SET current_balance_no_deposit = initial_investment

FOR each year from 1 to number_of_years

 SET interest_earned_no_deposit = current_balance_no_deposit * (annual_interest_rate / 100)

 SET current_balance_no_deposit = current_balance_no_deposit + interest_earned_no_deposit

 STORE year, current_balance_no_deposit, interest_earned_no_deposit in results_no_deposit

// Step 4: Calculate balance and interest with monthly deposits

SET current_balance_with_deposit = initial_investment

FOR each year from 1 to number_of_years

 FOR each month from 1 to 12

 SET monthly_interest_rate = (annual_interest_rate / 100) / 12

 SET current_balance_with_deposit = current_balance_with_deposit + monthly_deposit

 SET interest_earned_this_month = current_balance_with_deposit * monthly_interest_rate

SET current_balance_with_deposit = current_balance_with_deposit + interest_earned_this_month

SET interest_earned_this_year = current_balance_with_deposit - (initial_investment +
(monthly_deposit * 12 * year))

STORE year, current_balance_with_deposit, interest_earned_this_year in results_with_deposit

// Step 5: Display Results

DISPLAY "Year | Balance without Deposits | Interest Earned without Deposits"

FOR each record in results_no_deposit

DISPLAY record.year, record.balance, record.interest_earned

DISPLAY "Year | Balance with Deposits | Interest Earned with Deposits"

FOR each record in results_with_deposit

DISPLAY record.year, record.balance, record.interest_earned

END