﻿Main Program

1. Display Welcome Message: Display a welcome message to the consumer.

2. Get User Input: Prompt the person to enter the preliminary investment quantity, monthly deposit, annual interest rate, and number of years.

3. Validate User Input: Validate the users enter to make certain it is within the predicted range.

4. Calculate Year-End Balances: Calculate the interest earned for the current month.

5. Calculate Year-End Balances with Monthly Deposits: Calculate the year-to-end balances and earned interest with month-to-month deposits.

6. Display Reports: Display the two reports to the user.

7. Ask User to Continue: Ask the consumer if they need to keep testing one-of-a-kind scenarios.

8. Repeat or Exit: If the user chooses to continue with the program, repeat steps 4-7; otherwise, exit out this system.

Calculate Year-End Balances Function

1. Initialize Variables: Initialize variables to store the outlet quantity, deposited quantity, total interests, and last balance.

2. Calculate Monthly Interest Rate: Calculate the month-to-month interest rate from the annual interest rate.

3. Loop Through Months: Loop through every month of the investment length.

4. Calculate Interest: Calculate the interest earned for the present month.

5. Calculate Closing Balance: Calculate the last balance for the modern month.

6. Update Opening Amount: Update the amount to open for the next month.

7. Return Year-End Balances: Return the year-give up balances and earned interest.

Calculate Year-End Balances with Monthly Deposits Function

1. Initialize Variables: Initialize variables to store in the whole amount, deposited quantity, overall, total, and ultimate stability.

2. Calculate Monthly Interest Rate: Calculate the monthly interest rate from the annual interest rate.

3. Loop Through Months: Loop through each month of the funding length.

4. Calculate Interest: Calculate the interest earned for the current month.

5. Calculate Closing Balance: Calculate the final balance for the present month, which includes the monthly deposit.

6. Update Opening Amount: Update the opening amount for the subsequent month.

7. Return Year-End Balances: Return the year to end balances and earned interests.