

CS265 Project 2

Total Points: 20

65%: correctness; 25%: design; 10%: documentation and style

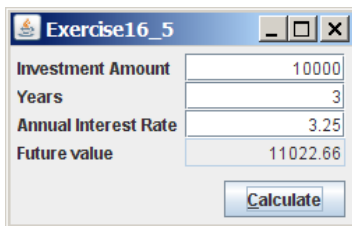
(See Lab Standards on web page. Follow directions for submission of projects.)

Problem Description:

Write a program that calculates the future value of an investment at a given interest rate for a specified number of years. The formula for the calculation is as follows:

$$\text{futureValue} = \text{investmentAmount} * (1 + \text{monthlyInterestRate})^{\text{years} * 12}$$

Use text fields for interest rate, investment amount, and years. Display the future amount in a text field when the user clicks the *Calculate* button, as shown in the following figure.



The screenshot shows a Java Swing window titled "Exercise16_5". It contains four text input fields and a "Calculate" button. The fields are labeled "Investment Amount", "Years", "Annual Interest Rate", and "Future value". The values entered in the fields are 10000, 3, 3.25, and 11022.66 respectively. The "Calculate" button is located at the bottom right of the form.

Field Label	Value
Investment Amount	10000
Years	3
Annual Interest Rate	3.25
Future value	11022.66

Submission: Zip all source files and the running results, and upload the zip file to this assignment activity box.