



Introduction to Java Programming

Sheet # 02: Elementary Programming

- ▶ Textbook: Introduction to Java Programming and Data Structures, Comprehensive Version (11th Edition)
- ▶ This sheet covers chapter 02 “Elementary Programming”

Dr. Mohammed El-Said

➤ Check Point Questions:

Review the questions at the following URL:

<https://liveexample.pearsoncmg.com/checkpoint12/Chapter2.html>

➤ Solve the following Programming Exercises from the textbook (pages 91-96)

2.2 2.5 2.6 2.7 2.13 2.15
2.19 2.23

➤ Mini Project: Calculating Future Investment Value

Write a program that reads in investment amount, annual interest rate, and number of years, and displays the future investment value using the following formula:
and displays the future investment value using the following formula:

$$\text{futureInvestmentValue} = \text{investmentAmount} * (1 + \text{monthlyInterestRate})^{\text{numberOfYears} * 12}$$

For example, if you enter amount 1000, annual interest rate 3.25%, and number of years 1, the future investment value is 1032.98.

Hint: Use the Math.pow(a, b) method to compute a raised to the power of b.

Here is a sample run:

Sample 1:

Enter investment amount: 1000
Enter annual interest rate: 4.25
Enter number of years: 1
Accumulated value is 1043.34

Sample 2:

Enter investment amount: 1000
Enter annual interest rate: 4.25
Enter number of years: 1
Accumulated value is 1043.34

With our best wishes;