public class NameAndInitials

{

public static void main(String[] args)

{

String firstName = "Herbert"; // First name

String middleName = "George"; // Middle name

String lastName = "Dorfmann"; // Last name

char firstInitial; // To hold the first initial

char middleInitial; // To hold the middle initial

char lastInitial; // To hold the last initial

// Get the initials.

firstInitial = firstName.charAt(0);

middleInitial = middleName.charAt(0);

lastInitial = lastName.charAt(0);

// Display the contents of the variables.

System.out.println("Name: " + firstName +

" " + middleName + " " +

lastName);

System.out.println("Initials: " + firstInitial +

middleInitial + lastInitial);

}

}

import java.util.Scanner; // Needed for the Scanner class

/\*\*

This program demonstrates a solution to the

Test Average programming challenge.

\*/

public class TestAverage

{

public static void main(String[] args)

{

double test1; // Test score #1

double test2; // Test score #2

double test3; // Test score #3

double average; // Average of the test scores

// Create a Scanner object for keyboard input.

Scanner keyboard = new Scanner(System.in);

// Get the first test score.

System.out.print("Enter test score #1: ");

test1 = keyboard.nextDouble();

// Get the second test score.

System.out.print("Enter test score #2: ");

test2 = keyboard.nextDouble();

// Get the first test score.

System.out.print("Enter test score #3: ");

test3 = keyboard.nextDouble();

// Calculate the average.

average = (test1 + test2 + test3) / 3.0;

// Display the average.

System.out.println("Test average: " + average);

}

}

import java.util.Scanner;

/\*\*

\* Chapter 2

\* Compound Interest problem

\*/

public class CompoundInterest

{

public static void main(String[] args)

{

// Variables

double amount, // Amount in the account

principal, // Principal originally deposited

rate, // Annual interest rate

compounding, // Number of times interest is compounded per year

years; // Number of years interest is compounded

// Create a Scanner object for keyboard input.

Scanner keyboard = new Scanner(System.in);

// Get the necessary input.

System.out.print("What is the original principal? ");

principal = keyboard.nextDouble();

System.out.print("What is the annual interest rate? ");

rate = keyboard.nextDouble();

System.out.print("How many times per year is interest compounded? ");

compounding = keyboard.nextDouble();

System.out.print("For how many years will interest be compounded? ");

years = keyboard.nextDouble();

// Move the decimal point in the interest rate.

rate = rate / 100.0;

// Calculate the ending balance.

amount = principal \* Math.pow((1 + rate / compounding), (compounding \* years));

// Display the result.

System.out.printf("After %.0f years you will have $%.2f.\n", years, amount);

}

}

import javax.swing.JOptionPane;

/\*\*

This program demonstrates a solution to the

Circuit Board Profit programming challenge.

\*/

public class CircuitBoardProfit

{

public static void main(String[] args)

{

final double PROFIT\_PERCENTAGE = 0.4; // Percentage of profit

double retailPrice; // Retail price

double profit; // Amount of profit

String input; // To hold keyboard input

// Get the retail price.

input = JOptionPane.showInputDialog(

"Enter the circuit board's retail price: ");

retailPrice = Double.parseDouble(input);

// Calculate the amount of profit.

profit = retailPrice \* PROFIT\_PERCENTAGE;

// Display the amount of profit.

JOptionPane.showMessageDialog(null,

"Amount of profit: $" + profit);

// Exit the applicaton.

System.exit(0);

}

}