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CST -105

Programming Exercises

Ch.2

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*Ch. 2.4*

class ConvertingPoundsIntoKilograms {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a number in pounds: ");

double pounds = input.nextDouble();

double kilograms = pounds \* 0.454;

System.out.print(pounds + " pounds is " + kilograms + " killograms");

}

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Ch. 2.5

public class Exercise\_02\_05 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in); // Create new Scanner object.

// Prompt the user to enter the subtotal and the gratuity rate

System.out.print("Enter the subtotal and a gratuity rate: ");

double subtotal = input.nextDouble();

double gratuityRate = input.nextDouble();

// Calculate gratuity and total

double gratuity = subtotal \* (gratuityRate / 100);

double total = subtotal + gratuity;

// Display results

System.out.println("The gratuity is $" + gratuity +

" and total is $" + total);

}

}

*Ch. 2.20*

public class Exercise\_02\_20 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

// Prompt the user to enter a balance and

// the annual percentage interest rate

System.out.print("Enter balance and interest rate (e.g., 3 for 3%): ");

double balance = input.nextDouble();

double annualInterestRate = input.nextDouble();

// Calculate the interest

double interest = balance \* (annualInterestRate / 1200);

// Display result

System.out.println("The interest is " + interest);

}

}

*Ch. 2.23*

public class Exersice\_23 {

public static void main(String[] Strings) {

Scanner input = new Scanner(System.in);

double distance;

double milesPerGallon;

double pricePerGallon;

// Getting input from user

System.out.print("Enter the driving distance: ");

distance = input.nextDouble();

System.out.print("Enter miles per gallon: ");

milesPerGallon = input.nextDouble();

System.out.print("Enter price per gallon: ");

pricePerGallon = input.nextDouble();

input.close(); // closing scanner

double total = distance / milesPerGallon \* pricePerGallon;

// Displaying total cost

System.out.printf("The cost of driving is $%.2f", total);

}

}