public class Exercise\_01\_05 {

public static void main(String[] args) {

System.out.println("9.5 X 4.5 - 2.5 X 3");

System.out.println("-------------------");

System.out.println(" 45.5 - 3.5");

System.out.println(" =");

System.out.println(((9.5 \* 4.5) - (2.5 \* 3)) / (45.5 - 3.5));

/\*

(Convert feet into meters) Write a program that reads a number in feet, converts it

to meters, and displays the result. One foot is 0.305 meter. Here is a sample run:

\*/

import java.util.Scanner;

public class Exercise\_02\_03 {

public static void main(String[] args) {

// Create a Scanner object

Scanner input = new Scanner(System.in);

// Create constant value

final double METERS\_PER\_FOOT = 0.305;

// Prompt user to enter a number in feet

System.out.print("Enter a value for feet: ");

double feet = input.nextDouble();

// Convert feet into meters

double meters = feet \* METERS\_PER\_FOOT;

// Display results

System.out.println(feet + " feet is " + meters + " meters");

}

}

/\*

(Game: lottery) Revise Listing 3.8, Lottery.java, to generate a lottery of a threedigit

number. The program prompts the user to enter a three-digit number and

determines whether the user wins according to the following rules:

1. If the user input matches the lottery number in the exact order, the award is

$10,000.

2. If all digits in the user input match all digits in the lottery number, the award is

$3,000.

3. If one digit in the user input matches a digit in the lottery number, the award is

$1,000.

\*/

import java.util.Scanner;

public class Exercise\_03\_15 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

// Generate a random three-digit number

int lottery = (int)(Math.random() \* 1000);

// Prompt the user to enter a three-digit number

System.out.print("Enter a three-digit number: ");

int guess = input.nextInt();

// Extract digits from lottery

int lotteryDigit1 = lottery / 100;

int remainingDigits = lottery % 100;

int lotteryDigit2 = remainingDigits / 10;

int lotteryDigit3 = remainingDigits % 10;

// Extract digits from guess

int guessDigit1 = guess / 100;

int remainingDigits = guess % 100;

int guessDigit2 = remainingDigits / 10;

int guessDigit3 = remainingDigits % 10;

System.out.println("The lottery number is " + lottery);

// Check the guess

if (guess == lottery)

System.out.println("Exact match: you win $10,000");

if (guessDigit1 == lotteryDigit2)

{

}

}

}

/\*

(Financial application: payroll) Write a program that reads the following information

and prints a payroll statement:

Employee’s name (e.g., Smith)

Number of hours worked in a week (e.g., 10)

Hourly pay rate (e.g., 9.75)

Federal tax withholding rate (e.g., 20%)

State tax withholding rate (e.g., 9%)

\*/

import java.util.Scanner;

public class Exercise\_04\_23 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

// Prompt the user to enter payroll inforation

System.out.print("Enter employee’s name: ");

String name = input.next();

System.out.print("Enter number of hours worked in a week: ");

double hoursWorked = input.nextDouble();

System.out.print("Enter hourly pay rate: ");

double hourlyPayRate = input.nextDouble();

System.out.print("Enter federal tax withholding rate: ");

double federalTaxRate = input.nextDouble();

System.out.print("Enter state tax withholding rate: ");

double stateTaxRate = input.nextDouble();

// Display payroll statement

double grossPay, federal, state, totalDeduction;

System.out.printf(

"Employee Name: " + name +

"\nHours Worked: " + hoursWorked +

"\nPay Rate: $" + hourlyPayRate +

"\nGross Pay: $" + (grossPay = hoursWorked \* hourlyPayRate) +

"\nDeductions:\n Federal Witholding (20.0%): $" +

(federal = grossPay \* federalTaxRate) +

"\n State Witholding (9.0%): $" + (state = grossPay \* stateTaxRate) +

"\n Total Deduction: $" + (totalDeduction = federal + state) +

"\nNet Pay: $" + (grossPay - totalDeduction)

);

}

}

/\*

(Conversion from kilograms to pounds and pounds to kilograms) Write a program

that displays the following two tables side by side:

Kilograms Pounds | Pounds Kilograms

1 2.2 | 20 9.09

3 6.6 | 25 11.36

...

197 433.4 | 510 231.82

199 437.8 | 515 234.09

\*/

public class Exercise\_05\_05 {

public static void main(String[] args) {

// Create constant value for number of pounds per kilogram

final double POUNDS\_PER\_KILOGRAM = 2.2;

// Display table header

System.out.println(

"Kilograms Pounds | Pounds Kilograms");

for (int k = 1, p = 20; k <= 199 && p <= 515; k += 2, p += 5) {

System.out.printf(

"%-12d%7.1f", k, (k \* POUNDS\_PER\_KILOGRAM));

System.out.print(" | ");

System.out.printf(

"%-9d%12.2f\n",

p, (p / POUNDS\_PER\_KILOGRAM));

}

}

}

BUG REPORT:

I had some troubles with the first exercise but after looking further into the errors I was receiving I fixed them. I did not have any troubles with the others.