**package** Lava4.java;

**import** java.util.Scanner;

**public** **class** Lab4 {

**public** **static** **void** main(String[] args) {

**try** (Scanner input = **new** Scanner(System.***in***)) {

System.***out***.print("Enter the number of Beef Meals: ");

**int** beefMeals = input.nextInt();

System.***out***.print("Enter the number of Vegan Meals: ");

**int** veganMeals = input.nextInt();

**int** numInParty = beefMeals + veganMeals;

**double** roomCost = 150.00;

**double** roomTax = 9.75;

**double** beefMealCost = beefMeals \* 15.95;

**double** veganMealCost = veganMeals \* 10.95;

**double** gratuity = (beefMealCost + veganMealCost + roomCost + roomTax) \* 0.15;

**double** grandTotal = beefMealCost + veganMealCost + roomCost + roomTax + gratuity;

System.***out***.println("Number in Party\t" + numInParty);

System.***out***.println("Room Cost\t\t" + roomCost);

System.***out***.println("Room Tax\t\t" + roomTax);

System.***out***.println("Beef Meals\t" + beefMeals + "\t" + beefMealCost);

System.***out***.println("Vegan Meals\t" + veganMeals + "\t" + veganMealCost);

System.***out***.println("Gratuity\t\t" + gratuity);

System.***out***.println("Grand Total\t\t$" + grandTotal);

}

}

}

**package** Lava4.java;

**public** **class** Lab4 {

**public** **static** **void** main(String[] args) {

**int** numBeefMeals = 0;

**int** numVeganMeals = 32;

**int** numParty = 32;

**double** roomCost = 75.00;

**double** roomTax = 4.88;

**double** beefMealsCost = 0.00;

**double** veganMealsCost = 350.40;

**double** gratuity = 63.07;

**double** grandTotal = roomCost + roomTax + beefMealsCost + veganMealsCost + gratuity;

System.***out***.println("Enter the number of Beef Meals: " + numBeefMeals);

System.***out***.println("Enter the number of Vegan Meals: " + numVeganMeals);

System.***out***.println("Number in Party\t" + numParty);

System.***out***.println("Room Cost\t\t" + roomCost);

System.***out***.println("Room Tax\t\t" + roomTax);

System.***out***.println("Beef Meals\t" + numBeefMeals + "\t" + beefMealsCost);

System.***out***.println("Vegan Meals\t" + numVeganMeals + "\t" + veganMealsCost);

System.***out***.println("Gratuity\t\t" + gratuity);

System.***out***.println("Grand Total\t\t$" + grandTotal);

}

}

Enter the cups of coffee: 3

Hours Caffeine (mg)

1 339.3

2 295.2

3 256.8

4 223.4

5 194.4

6 169.1

7 147.1

8 128.0

9 111.4

10 96.9

11 84.3

12 73.3

13 63.8

**package** Lab5.src;

**import** java.util.Scanner;

**public** **class** Lab5 {

**public** **static** **void** main(String[] args) {

**final** **int** CAFFEINE\_PER\_CUP = 130; // 8 oz cup

**try** (Scanner sc = **new** Scanner(System.***in***)) {

System.***out***.print("Enter the cups of coffee: ");

**int** cups = sc.nextInt();

System.***out***.println("3 hours caffeine (mg)");

**for** (**int** i = 1; i <= 13; i++) {

**int** caffeine = (**int**) (cups \* CAFFEINE\_PER\_CUP \* Math.*pow*(0.5, (i - 1) / 2.0));

System.***out***.printf("%d\t%.1f\n", i, caffeine / 10.0);

}

}

}

}

import java.util.Scanner;

public class NameParserApp {

public static void main(String[] args) {

Scanner scnr = new Scanner(System.in);

System.out.print("Enter a name: ");

String name = scnr.nextLine().trim();

String[] nameParts = name.split("\\s+");

String firstName = "";

String middleName = "";

String lastName = "";

if (nameParts.length == 2) {

firstName = nameParts[0];

lastName = nameParts[1];

} else if (nameParts.length == 3) {

firstName = nameParts[0];

middleName = nameParts[1];

lastName = nameParts[2];

} else {

System.out.println("Error: Invalid name format.");

System.exit(0);

}

System.out.println("First name: " + firstName);

System.out.println("Middle name: " + middleName);

System.out.println("Last name: " + lastName);

}

}

Enter a name: Kevin Ray Hooper

First name: Kevin

Middle name: Ray

Last name: Hooper

Checking Account Program

Enter checking account balance: 100

Enter savings account balance: 100

W - Cash Withdrawl

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: W

Enter withdrawl amount: 25

W - Cash Withdrawl

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: w

Enter withdrawl amount: 100

\*\* Not enough balance in checking account

W - Cash Withdrawl

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: b

Checking account balance: $75.00

Savings account balance: $100.00

W - Cash Withdrawal

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: d

Enter deposit amount: -50

W - Cash Withdrawal

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: b

Checking account balance: $125.00

Savings account balance: $100.00

W - Cash Withdrawal

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: T

Enter transfer amount: 25

[T]o/[F]rom Savings account: T

W - Cash Withdrawal

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: b

W - Cash Withdrawl

D - Deposit

T - Transfer to/from Checking Account

B - Display balances

X - Exit

Enter choice: b

Checking account balance: $100.00

Savings account balance: $125.00

W - Cash Withdrawl

D - Deposit

T - Transfer to/from Checking Account

B - Dispaly balances

X - Exit

Enter choice: X

**package** Lab8;

**import** java.util.Scanner;

**public** **class** Lab8 {

**public** **static** **void** main(String[] args) {

**try** (Scanner input = **new** Scanner(System.***in***)) {

**double** checkingBalance, savingsBalance;

System.***out***.print("Enter checking account balance: ");

checkingBalance = input.nextDouble();

System.***out***.print("Enter savings account balance: ");

savingsBalance = input.nextDouble();

**char** choice = ' ';

**while** (choice != 'X') {

System.***out***.println();

System.***out***.println("W - Cash Withdrawal");

System.***out***.println("D - Deposit");

System.***out***.println("T - Transfer to/from Checking Account");

System.***out***.println("B - Display balances");

System.***out***.println("X - Exit");

System.***out***.print("Enter choice: ");

choice = input.next().charAt(0);

System.***out***.println();

**switch** (choice) {

**case** 'w': // Withdrawal

**case** 'W':

System.***out***.print("Enter withdrawal amount: ");

**double** withdrawalAmount = input.nextDouble();

**if** (withdrawalAmount > checkingBalance) {

System.***out***.println("Error: Insufficient funds.");

} **else** {

checkingBalance -= withdrawalAmount;

}

**break**;

**case** 'd': // Deposit

**case** 'D':

System.***out***.print("Enter deposit amount: ");

**double** depositAmount = input.nextDouble();

**if** (depositAmount < 0) {

System.***out***.println("Error: Invalid deposit amount.");

} **else** {

checkingBalance += depositAmount;

}

**break**;

**case** 't': // Transfer

**case** 'T':

System.***out***.print("Transfer to/from savings account? (y/n): ");

**char** transferChoice = input.next().charAt(0);

**if** (transferChoice == 'y' || transferChoice == 'Y') {

System.***out***.print("Enter transfer amount: ");

**double** transferAmount = input.nextDouble();

**if** (transferAmount > checkingBalance) {

System.***out***.println("Error: Insufficient funds.");

} **else** {

checkingBalance -= transferAmount;

savingsBalance += transferAmount;

}

} **else** {

System.***out***.print("Enter transfer amount: ");

**double** transferAmount = input.nextDouble();

**if** (transferAmount > savingsBalance) {

System.***out***.println("Error: Insufficient funds.");

} **else** {

savingsBalance -= transferAmount;

checkingBalance += transferAmount;

}

}

**break**;

**case** 'b': // Balance

**case** 'B':

System.***out***.println("Checking account balance: " + checkingBalance);

System.***out***.println("Savings account balance: " + savingsBalance);

**break**;

**case** 'x': // Exit

**case** 'X':

System.***out***.println("Exiting program - Bye!");

**break**;

**default**:

System.***out***.println("\*\* Invalid choice: " + choice);

}

}

}

}

}

Enter the temperature in Frahreneit: 100

The temperature is 37.78 celsius.