

import java.util.\*;

class Coursework3{

public static void main(String args[]){

Scanner input = new Scanner(System.in);

System.out.println("\t\t \_\_\_ \_ \_\_\_\_\_ \_ \_");

System.out.println("\t\t / \_\_| | | | \_\_\_\_| | | (\_)");

System.out.println("\t\t| (\_\_ \_ \_\_ \_\_\_ \_\_ \_ \_ \_\_| |\_ | |\_\_ \_\_ \_ \_\_\_| |\_\_ \_ \_\_\_ \_ \_\_");

System.out.println("\t\t \\\_\_ \\| '\_ ` \_ \\/ \_` | `\_\_| \_\_| | \_\_/ ` / \_\_| '\_ \\| |/ \_ \\| '\_ \\ ");

System.out.println("\t\t \_\_\_) | | | | | | (\_| | | | |\_ | | | (\_| \\\_\_ \\ | | | | (\_) | | | |");

System.out.println("\t\t|\_\_\_\_/|\_| |\_| |\_|\\\_\_,\_|\_| \\\_\_| |\_| \\\_\_,\_|\_\_\_/\_| |\_|\_|\\\_\_\_/|\_| |\_|");

System.out.print("\n\n\t\tDate : ");

String date = input.next();

System.out.print("\n\t\tCutomer Name : ");

String name = input.next();

System.out.println("\n\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("\n\n\t\t\t\t \_\_\_\_\_ \_\_\_ \_ \_ \_");

System.out.println("\t\t\t\t|\_ \_|\_\_/ \_\_| |\_ (\_)\_ \_| |\_ \_\_\_ ");

System.out.println("\t\t\t\t | ||\_\_\_\\\_\_ \\ ' \\| | '\_| \_(\_-<");

System.out.println("\t\t\t\t |\_| |\_\_\_/\_||\_|\_|\_| \\\_\_/\_\_/\n");

int noTShirts = 0;

double TunitPrice = 0;

float TdiscountRate = 0;

int tr\_len = 0, Tuni\_len = 0, Tdis\_len = 0;

try{

while (true){

System.out.print("\n\n\t\tNumber of T-Shirts : ");

noTShirts = input.nextInt();

tr\_len = String.valueOf(noTShirts).length();

if (noTShirts >= 0){

System.out.print("\n\t\tUnit Price of T-Shirts : ");

TunitPrice = input.nextDouble();

Tuni\_len = String.valueOf(Math.round(TunitPrice\*100.0)/100.0).length();

if (TunitPrice >= 0){

System.out.print("\n\t\tDiscount Rate (%) : ");

TdiscountRate = input.nextFloat();

Tdis\_len = String.valueOf(TdiscountRate).length();

if (TdiscountRate >= 0 && TdiscountRate <= 100){

break;

}

}else{

System.out.println("\t\tInvalid input");

}

}else{

System.out.println("\t\tInvalid input");

}

}

}catch (Exception e){

System.out.println("\t\tInvalid input. Please input a numeric value");

}

double TShirtsAmount = TunitPrice \* noTShirts - TdiscountRate / 100;

int Tam\_len = String.valueOf(Math.round(TShirtsAmount\*100.0)/100.0).length();

String TQtySpaces = " ".repeat(13 - tr\_len);

String TUniSpaces = " ".repeat(19 - Tuni\_len);

String TAmSpaces = " ".repeat(19 - Tam\_len);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\t\t| Description | QTY | Unit Price | Amount |");

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.printf ("\t\t| T-Shirt |%d%s|%.2f%s|%.2f%s|", noTShirts,TQtySpaces,TunitPrice,TUniSpaces, TShirtsAmount, TAmSpaces);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\n\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("\n\n\t\t\t\t \_\_\_\_\_");

System.out.println("\t\t\t\t|\_ \_| \_ \_\_\_ \_ \_ \_\_\_ \_\_\_ \_ \_ \_\_\_");

System.out.println("\t\t\t\t | || '\_/ \_ \\ || (\_-</ -\_) '\_(\_-<");

System.out.println("\t\t\t\t |\_||\_| \\\_\_\_/\\\_,\_/\_\_/\\\_\_\_|\_| /\_\_/\n");

int noTrousers = 0;

double TrUnitPrice = 0;

float TrDiscountRate = 0;

int Tr\_len = 0, Tr\_uni\_len = 0, Tr\_dis\_len = 0;

try{

while (true){

System.out.print("\n\n\t\tNumber of Trousers : ");

noTrousers = input.nextInt();

tr\_len = String.valueOf(noTrousers).length();

if (noTrousers >= 0){

System.out.print("\n\t\tUnit Price of a Trouser : ");

TrUnitPrice = input.nextDouble();

Tr\_uni\_len = String.valueOf(Math.round(TrUnitPrice\*100.0)/100.0).length();

if (TrUnitPrice >= 0){

System.out.print("\n\t\tDiscount Rate (%) : ");

TrDiscountRate = input.nextFloat();

Tr\_dis\_len = String.valueOf(TrDiscountRate).length();

if (TrDiscountRate >= 0 && TrDiscountRate <= 100){

break;

}

}else{

System.out.println("\t\tInvalid input");

}

}else{

System.out.println("\t\tInvalid input");

}

}

}catch (Exception e){

System.out.println("\t\tInvalid input. Please input a numeric value");

}

double TrousersAmount = TrUnitPrice \* noTrousers - TrDiscountRate / 100;

int Tr\_am\_len = String.valueOf(Math.round(TrousersAmount\*100.0)/100.0).length();

String TrQtySpaces = " ".repeat(12 - Tr\_len);

String TrUniSpaces = " ".repeat(19 - Tr\_uni\_len);

String TrAmSpaces = " ".repeat(20 - Tr\_am\_len);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\t\t| Description | QTY | Unit Price | Amount |");

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.printf ("\t\t| Trouser |%d%s|%.2f%s|%.2f%s|", noTrousers,TrQtySpaces,TrUnitPrice,TrUniSpaces, TrousersAmount, TrAmSpaces);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\n\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("\n\t\t\t\t \_\_\_ \_ \_ \_");

System.out.println("\t\t\t\t / \_\_| |\_ (\_)\_ \_| |\_ \_\_\_ ");

System.out.println("\t\t\t\t \\\_\_ \\ ' \\| | '\_| \_(\_-<");

System.out.println("\t\t\t\t |\_\_\_/\_||\_|\_|\_| \\\_\_/\_\_/");

int noShirts = 0;

double SUnitPrice = 0;

float SDiscountRate = 0;

int S\_len = 0, S\_uni\_len = 0, S\_dis\_len = 0;

try{

while (true){

System.out.print("\n\n\t\tNumber of Shirts : ");

noShirts = input.nextInt();

S\_len = String.valueOf(noShirts).length();

if (noShirts >= 0){

System.out.print("\n\t\tUnit Price of a Shirt : ");

SUnitPrice = input.nextDouble();

S\_uni\_len = String.valueOf(Math.round(SUnitPrice\*100.0)/100.0).length();

if (SUnitPrice >= 0){

System.out.print("\n\t\tDiscount Rate (%) : ");

SDiscountRate = input.nextFloat();

S\_dis\_len = String.valueOf(SDiscountRate).length();

if (TdiscountRate >= 0 && TdiscountRate <= 100){

break;

}

}else{

System.out.println("\t\tInvalid input");

}

}else{

System.out.println("\t\tInvalid input");

}

}

}catch (Exception e){

System.out.println("\t\tInvalid input. Please input a numeric value");

}

double ShirtsAmount = SUnitPrice \* noShirts - SDiscountRate / 100;

int S\_am\_len = String.valueOf(Math.round(ShirtsAmount\*100.0)/100.0).length();

String SQtySpaces = " ".repeat(13 - S\_len);

String SUniSpaces = " ".repeat(19 - S\_uni\_len);

String SAmSpaces = " ".repeat(20 - S\_am\_len);

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\t\t| Description | QTY | Unit Price | Amount |");

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.printf ("\t\t| Shirt |%d%s|%.2f%s|%.2f%s|", noShirts,SQtySpaces,SUnitPrice,SUniSpaces, ShirtsAmount, SAmSpaces);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\n\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("\n\n\t\t\t\t \_\_\_ \_ \_");

System.out.println("\t\t\t\t/ \_\_| |\_ \_\_\_ \_ \_| |\_ \_\_\_");

System.out.println("\t\t\t\t\\\_\_ \\ ' \\/ \_ \\ '\_| \_(\_-<");

System.out.println("\t\t\t\t|\_\_\_/\_||\_\\\_\_\_/\_| \\\_\_/\_\_/\n");

int noShorts = 0;

double ShUnitPrice = 0;

float ShDiscountRate = 0;

int sh\_len = 0, sh\_uni\_len = 0, sh\_dis\_len = 0;

try{

while (true){

System.out.print("\n\n\t\tNumber of Shorts : ");

noShorts = input.nextInt();

sh\_len = String.valueOf(noTShirts).length();

if (noTShirts >= 0){

System.out.print("\n\t\tUnit Price of a Shorts : ");

ShUnitPrice = input.nextDouble();

sh\_uni\_len = String.valueOf(Math.round(ShUnitPrice\*100.0)/100.0).length();

if (TunitPrice >= 0){

System.out.print("\n\t\tDiscount Rate (%) : ");

ShDiscountRate = input.nextFloat();

sh\_dis\_len = String.valueOf(ShDiscountRate).length();

if (ShDiscountRate >= 0 && ShDiscountRate <= 100){

break;

}

}else{

System.out.println("\t\tInvalid input");

}

}else{

System.out.println("\t\tInvalid input");

}

}

}catch (Exception e){

System.out.println("\t\tInvalid input. Please input a numeric value");

}

double ShortsAmount = ShUnitPrice \* noShorts - ShDiscountRate / 100;

int sh\_am\_len = String.valueOf(Math.round(ShortsAmount\*100.0)/100.0).length();

String ShQtySpaces = " ".repeat(13 - sh\_len);

String ShUniSpaces = " ".repeat(19 - sh\_uni\_len);

String ShAmSpaces = " ".repeat(19 - sh\_am\_len);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\t\t| Description | QTY | Unit Price | Amount |");

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.printf ("\t\t| Shorts |%d%s|%.2f%s|%.2f%s|", noTShirts,ShQtySpaces,ShUnitPrice,ShUniSpaces, ShortsAmount, ShAmSpaces);

System.out.println("\n\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\n\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

double total = TShirtsAmount + TrousersAmount + ShirtsAmount + ShortsAmount;

int tot\_len = String.valueOf(Math.round(total\*100.0)/100.0).length();

String totalSpaces = " ".repeat(19 - tot\_len);

System.out.println("\n\n\t\t+--------------------------------------------------------------------------------+");

System.out.println("\t\t| \_\_\_ \_ \_ \_ \_\_\_ |");

System.out.println("\t\t| | \_ |\_) | | / \_\_|\_ \_ \_ \_\_ \_ \_\_ \_\_ \_ \_ \_ \_ \_ |");

System.out.println("\t\t| | \_ \\ | | | \\\_\_ \\ || | ' \\| ' \\/ \_` | '\_| || | |");

System.out.println("\t\t| |\_\_\_/\_|\_|\_| |\_\_\_/\\\_,\_|\_|\_|\_|\_|\_|\_\\\_\_,\_|\_| \\\_, | |");

System.out.println("\t\t| |\_\_/ |");

System.out.println("\t\t| |");

System.out.printf ("\t\t| Customer : %s Date : %s |\n",name,date);

System.out.println("\t\t| |");

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.println("\t\t| Description | QTY | Unit Price | Amount |");

System.out.println("\t\t+------------------------+-------------+--------------------+--------------------+");

System.out.printf ("\t\t| T-Shirt |%d%s|%.2f%s|%.2f%s|\n", noTShirts,TQtySpaces,TunitPrice,TUniSpaces, TShirtsAmount, TAmSpaces);

System.out.println("\t\t| | | | |");

System.out.printf ("\t\t| Trouser |%d%s|%.2f%s|%.2f%s|\n", noTrousers,TrQtySpaces,TrUnitPrice,TrUniSpaces, TrousersAmount, TrAmSpaces);

System.out.println("\t\t| | | | |");

System.out.printf ("\t\t| Shirt |%d%s|%.2f%s|%.2f%s|\n", noShirts,SQtySpaces,SUnitPrice,SUniSpaces, ShirtsAmount, SAmSpaces);

System.out.println("\t\t| | | | |");

System.out.printf ("\t\t| Shorts |%d%s|%.2f%s|%.2f%s|\n", noTShirts,ShQtySpaces,ShUnitPrice,ShUniSpaces, ShortsAmount, ShAmSpaces);

System.out.println("\t\t| | | | |");

System.out.println("\t\t+--------------------------------------------------------------------------------+");

System.out.printf ("\t\t| Total |%.2f%s|\n", total,totalSpaces);

System.out.println("\t\t+--------------------------------------------------------------------------------+");

}

}

