Nathan Gaffney

Lab 3

16-9-2014

Task 1

if (firstName.equalsIgnoreCase("mike") || firstName.equalsIgnoreCase("diane"))  
 {  
 discount = true;  
 System.out.println("DISCOUNT");  
 }

Task 2.

switch (inches)  
 {   
 case 10:  
 cost = 10.99;  
 break;  
   
 case 12:  
 cost = 12.99;  
 break;  
   
 case 14:  
 cost = 14.99;  
 break;  
   
 case 16:  
 cost = 16.99;  
 break;  
   
 default:  
 cost = 12.99;  
 inches= 12;  
 System.out.print("Not one of the choices. Ordering a 12-inch.\n");  
 break;  
 }

Welcome to Mike and Diane's Pizza  
¼¼§ÏEnter your first name: nathan  
ÏÏ§ÏPizza Size (inches) Cost  
ÏÏ§Ï 10 $10.99  
ÏÏ§Ï 12 $12.99  
ÏÏ§Ï 14 $14.99  
ÏÏ§Ï 16 $16.99  
ÏÏ§ÏWhat size pizza would you like?  
¼¼§Ï10, 12, 14, or 16 (enter the number only): 12  
ÏÏ§ÏWhat type of crust do you want?   
¼¼§Ï(H)Hand-tossed, (T) Thin-crust, or (D) Deep-dish (enter H, T, or D): d  
ÏÏ§ÏAll pizzas come with cheese.  
ÏÏ§ÏAdditional toppings are $1.25 each, choose from  
ÏÏ§ÏPepperoni, Sausage, Onion, Mushroom  
¼¼§ÏDo you want Pepperoni? (Y/N): y  
¼¼§ÏDo you want Sausage? (Y/N): y  
¼¼§ÏDo you want Onion? (Y/N): y  
¼¼§ÏDo you want Mushroom? (Y/N): y  
ÏÏ§Ï  
ÏÏ§ÏYour order is as follows:   
ÏÏ§Ï12 inch pizza  
ÏÏ§ÏHand-tossed crust  
ÏÏ§ÏCheese Pepperoni Sausage Onion Mushroom   
ÏÏ§ÏThe cost of your order is: $17.990000000000002  
ÏÏ§ÏThe tax is: $1.4392000000000003  
ÏÏ§ÏThe total due is: $19.4292  
ÏÏ§ÏYour order will be ready for pickup in 30 minutes.  
ÏÏ§Ï

Task 3

if (crustType == 'H' || crustType == 'h')  
 {  
 System.out.println("Hand-tossed crust selected.");  
   
 }  
 else if (crustType == 'T' || crustType == 't')  
 {  
 System.out.println("Thin crust selected.");  
   
 }  
 else if (crustType == 'D' || crustType == 'd')  
 {  
 System.out.println("Deep dish pizza selected.");  
   
 }  
 else  
 {  
 System.out.println("Incorrect type selected." +  
 "Defaulting to hand\_tossed.");  
   
 }

Welcome to Mike and Diane's Pizza  
¼¼§ÏEnter your first name: diane  
ÏÏ§ÏDISCOUNT  
ÏÏ§ÏPizza Size (inches) Cost  
ÏÏ§Ï 10 $10.99  
ÏÏ§Ï 12 $12.99  
ÏÏ§Ï 14 $14.99  
ÏÏ§Ï 16 $16.99  
ÏÏ§ÏWhat size pizza would you like?  
¼¼§Ï10, 12, 14, or 16 (enter the number only): 15  
ÏÏ§ÏNot one of the choices. Ordering a 12-inch.  
ÏÏ§ÏWhat type of crust do you want?   
¼¼§Ï(H)Hand-tossed, (T) Thin-crust, or (D) Deep-dish (enter H, T, or D): k  
ÏÏ§ÏIncorrect type selected.Defaulting to hand\_tossed.  
ÏÏ§ÏAll pizzas come with cheese.  
ÏÏ§ÏAdditional toppings are $1.25 each, choose from  
ÏÏ§ÏPepperoni, Sausage, Onion, Mushroom  
¼¼§ÏDo you want Pepperoni? (Y/N): n  
¼¼§ÏDo you want Sausage? (Y/N): n  
¼¼§ÏDo you want Onion? (Y/N): n  
¼¼§ÏDo you want Mushroom? (Y/N): n  
ÏÏ§Ï  
ÏÏ§ÏYour order is as follows:   
ÏÏ§Ï12 inch pizza  
ÏÏ§ÏHand-tossed crust  
ÏÏ§ÏCheese   
ÏÏ§ÏThe cost of your order is: $10.99  
ÏÏ§ÏThe tax is: $0.8792  
ÏÏ§ÏThe total due is: $11.8692  
ÏÏ§ÏYour order will be ready for pickup in 30 minutes.

Task 4

if (discount) {cost-=2;}

Welcome to Mike and Diane's Pizza  
¼¼§ÏEnter your first name: diane  
ÏÏ§ÏDISCOUNT  
ÏÏ§ÏPizza Size (inches) Cost  
ÏÏ§Ï 10 $10.99  
ÏÏ§Ï 12 $12.99  
ÏÏ§Ï 14 $14.99  
ÏÏ§Ï 16 $16.99  
ÏÏ§ÏWhat size pizza would you like?  
¼¼§Ï10, 12, 14, or 16 (enter the number only): 15  
ÏÏ§ÏNot one of the choices. Ordering a 12-inch.  
ÏÏ§ÏWhat type of crust do you want?   
¼¼§Ï(H)Hand-tossed, (T) Thin-crust, or (D) Deep-dish (enter H, T, or D): k  
ÏÏ§ÏIncorrect type selected.Defaulting to hand\_tossed.  
ÏÏ§ÏAll pizzas come with cheese.  
ÏÏ§ÏAdditional toppings are $1.25 each, choose from  
ÏÏ§ÏPepperoni, Sausage, Onion, Mushroom  
¼¼§ÏDo you want Pepperoni? (Y/N): n  
¼¼§ÏDo you want Sausage? (Y/N): n  
¼¼§ÏDo you want Onion? (Y/N): n  
¼¼§ÏDo you want Mushroom? (Y/N): n  
ÏÏ§Ï  
ÏÏ§ÏYour order is as follows:   
ÏÏ§Ï12 inch pizza  
ÏÏ§ÏHand-tossed crust  
ÏÏ§ÏCheese   
ÏÏ§ÏThe cost of your order is: $10.99  
ÏÏ§ÏThe tax is: $0.8792  
ÏÏ§ÏThe total due is: $11.8692  
ÏÏ§ÏYour order will be ready for pickup in 30 minutes.

Task 5

DecimalFormat decFormat = new DecimalFormat("#0.00");

ÏÏÏÏ  
ÏÏ«Ï ----jGRASP exec: java PizzaOrder  
ÏÏ§Ï  
ÏÏ§ÏWelcome to Mike and Diane's Pizza  
¼¼§ÏEnter your first name: mike  
ÏÏ§ÏDISCOUNT  
ÏÏ§ÏPizza Size (inches) Cost  
ÏÏ§Ï 10 $10.99  
ÏÏ§Ï 12 $12.99  
ÏÏ§Ï 14 $14.99  
ÏÏ§Ï 16 $16.99  
ÏÏ§ÏWhat size pizza would you like?  
¼¼§Ï10, 12, 14, or 16 (enter the number only): 12  
ÏÏ§ÏWhat type of crust do you want?   
¼¼§Ï(H)Hand-tossed, (T) Thin-crust, or (D) Deep-dish (enter H, T, or D): t  
ÏÏ§ÏThin crust selected.  
ÏÏ§ÏAll pizzas come with cheese.  
ÏÏ§ÏAdditional toppings are $1.25 each, choose from  
ÏÏ§ÏPepperoni, Sausage, Onion, Mushroom  
¼¼§ÏDo you want Pepperoni? (Y/N): y  
¼¼§ÏDo you want Sausage? (Y/N): y  
¼¼§ÏDo you want Onion? (Y/N): y  
¼¼§ÏDo you want Mushroom? (Y/N): y  
ÏÏ§Ï  
ÏÏ§ÏYour order is as follows:   
ÏÏ§Ï12 inch pizza  
ÏÏ§ÏHand-tossed crust  
ÏÏ§ÏCheese Pepperoni Sausage Onion Mushroom   
ÏÏ§ÏThe cost of your order is: $15.99  
ÏÏ§ÏThe tax is: $1.28  
ÏÏ§ÏThe total due is: $17.27  
ÏÏ§ÏYour order will be ready for pickup in 30 minutes.  
ÏÏ§Ï  
ÏÏ©Ï ----jGRASP: operation complete.  
¼¼ÏÏ

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 This program allows the user to order a pizza  
 Created by: Nathan Gaffney  
 11- Sep - 2014  
 JAVA PROGRAMMING - CST-183-FA110-14FA-COURSE  
 Lab 3  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
import java.util.Scanner;  
import java.text.DecimalFormat;  
  
public class PizzaOrder  
{  
 public static void main (String [] args)  
 {  
 //TASK #5 Create a DecimalFormat object with 2 decimal places  
 DecimalFormat decFormat = new DecimalFormat("#0.00");  
 //Create a Scanner object to read input  
 Scanner keyboard = new Scanner (System.in);  
   
 String firstName; //user's first name  
 boolean discount = false; //flag, true if user is eligible for discount  
 int inches; //size of the pizza  
 char crustType; //code for type of crust  
 String crust = "Hand-tossed"; //name of crust  
 double cost = 12.99; //cost of the pizza  
 final double TAX\_RATE = .08; //sales tax rate  
 double tax; //amount of tax  
 char choice; //user's choice  
 String input; //user input  
 String toppings = "Cheese "; //list of toppings   
 int numberOfToppings = 0; //number of toppings  
   
 //prompt user and get first name  
 System.out.println("Welcome to Mike and Diane's Pizza");  
 System.out.print("Enter your first name: ");  
 firstName = keyboard.nextLine();  
 //determine if user is eligible for discount by  
 //having the same first name as one of the owners  
 //ADD LINES HERE FOR TASK #1  
 if (firstName.equalsIgnoreCase("mike") || firstName.equalsIgnoreCase("diane"))  
 {  
 discount = true;  
 }  
 //prompt user and get pizza size choice  
 System.out.println("Pizza Size (inches) Cost");  
 System.out.println(" 10 $10.99");  
 System.out.println(" 12 $12.99");  
 System.out.println(" 14 $14.99");  
 System.out.println(" 16 $16.99");  
 System.out.println("What size pizza would you like?");   
 System.out.print("10, 12, 14, or 16 (enter the number only): ");  
 inches = keyboard.nextInt();  
   
 //set price and size of pizza ordered  
 //ADD LINES HERE FOR TASK #2  
 switch (inches)  
 {   
 case 10:  
 cost = 10.99;  
 break;  
   
 case 12:  
 cost = 12.99;  
 break;  
   
 case 14:  
 cost = 14.99;  
 break;  
   
 case 16:  
 cost = 16.99;  
 break;  
   
 default:  
 cost = 12.99;  
 inches= 12;  
 System.out.print("Not one of the choices. Ordering a 12-inch.\n");  
 break;  
 }  
   
 //consume the remaining newline character  
 keyboard.nextLine();   
   
 //prompt user and get crust choice  
 System.out.println("What type of crust do you want? ");  
 System.out.print("(H)Hand-tossed, (T) Thin-crust, or " +  
 "(D) Deep-dish (enter H, T, or D): ");  
 input = keyboard.nextLine();  
 crustType = input.charAt(0);  
 //set user's crust choice on pizza ordered  
 //ADD LINES FOR TASK #3  
 if (crustType == 'H' || crustType == 'h')  
 {  
 System.out.println("Hand-tossed crust selected.");  
   
 }  
 else if (crustType == 'T' || crustType == 't')  
 {  
 System.out.println("Thin crust selected.");  
   
 }  
 else if (crustType == 'D' || crustType == 'd')  
 {  
 System.out.println("Deep dish pizza selected.");  
   
 }  
 else  
 {  
 System.out.println("Incorrect type selected." +  
 "Defaulting to hand\_tossed.");  
   
 }  
   
 //prompt user and get topping choices one at a time   
 System.out.println("All pizzas come with cheese.");   
 System.out.println("Additional toppings are $1.25 each,"  
 +" choose from");  
 System.out.println("Pepperoni, Sausage, Onion, Mushroom");  
   
 //if topping is desired,   
 //add to topping list and number of toppings  
 System.out.print("Do you want Pepperoni? (Y/N): ");  
 input = keyboard.nextLine();  
 choice = input.charAt(0);  
 if (choice == 'Y' || choice == 'y')  
 {  
 numberOfToppings += 1;  
 toppings = toppings + "Pepperoni ";  
 }  
 System.out.print("Do you want Sausage? (Y/N): ");  
 input = keyboard.nextLine();  
 choice = input.charAt(0);  
 if (choice == 'Y' || choice == 'y')  
 {  
 numberOfToppings += 1;  
 toppings = toppings + "Sausage ";  
 }  
 System.out.print("Do you want Onion? (Y/N): ");  
 input = keyboard.nextLine();  
 choice = input.charAt(0);  
 if (choice == 'Y' || choice == 'y')  
 {  
 numberOfToppings += 1;  
 toppings = toppings + "Onion ";  
 }  
 System.out.print("Do you want Mushroom? (Y/N): ");  
 input = keyboard.nextLine();  
 choice = input.charAt(0);  
 if (choice == 'Y' || choice == 'y')  
 {  
 numberOfToppings += 1;  
 toppings = toppings + "Mushroom ";  
 }  
  
 //add additional toppings cost to cost of pizza  
 cost = cost + (1.25\*numberOfToppings);  
   
   
 //display order confirmation  
 System.out.println();  
 System.out.println("Your order is as follows: ");  
 System.out.println(inches + " inch pizza");  
 System.out.println(crust + " crust");  
 System.out.println(toppings);   
   
 //apply discount if user is elibible  
 //ADD LINES FOR TASK #4 HERE  
 if (discount) {cost-=2;}//Remove discount of 2 dollars  
 //EDIT PROGRAM FOR TASK #5  
 //SO ALL MONEY OUTPUT APPEARS WITH 2 DECIMAL PLACES  
 System.out.println("The cost of your order is: $" + decFormat.format(cost));  
   
 //calculate and display tax and total cost  
 tax = cost \* TAX\_RATE;  
 System.out.println("The tax is: $" + decFormat.format(tax));  
 System.out.println("The total due is: $" + decFormat.format((tax+cost)));  
 System.out.println("Your order will be ready for pickup in 30 minutes.");  
 }   
}

ÏÏÏÏ  
ÏÏ«Ï ----jGRASP exec: java PizzaOrder  
ÏÏ§Ï  
ÏÏ§ÏWelcome to Mike and Diane's Pizza  
¼¼§ÏEnter your first name: mike  
ÏÏ§ÏPizza Size (inches) Cost  
ÏÏ§Ï 10 $10.99  
ÏÏ§Ï 12 $12.99  
ÏÏ§Ï 14 $14.99  
ÏÏ§Ï 16 $16.99  
ÏÏ§ÏWhat size pizza would you like?  
¼¼§Ï10, 12, 14, or 16 (enter the number only): 16  
ÏÏ§ÏWhat type of crust do you want?   
¼¼§Ï(H)Hand-tossed, (T) Thin-crust, or (D) Deep-dish (enter H, T, or D): d  
ÏÏ§ÏDeep dish pizza selected.  
ÏÏ§ÏAll pizzas come with cheese.  
ÏÏ§ÏAdditional toppings are $1.25 each, choose from  
ÏÏ§ÏPepperoni, Sausage, Onion, Mushroom  
¼¼§ÏDo you want Pepperoni? (Y/N): y  
¼¼§ÏDo you want Sausage? (Y/N): y  
¼¼§ÏDo you want Onion? (Y/N): y  
¼¼§ÏDo you want Mushroom? (Y/N): y  
ÏÏ§Ï  
ÏÏ§ÏYour order is as follows:   
ÏÏ§Ï16 inch pizza  
ÏÏ§ÏHand-tossed crust  
ÏÏ§ÏCheese Pepperoni Sausage Onion Mushroom   
ÏÏ§ÏThe cost of your order is: $19.99  
ÏÏ§ÏThe tax is: $1.60  
ÏÏ§ÏThe total due is: $21.59  
ÏÏ§ÏYour order will be ready for pickup in 30 minutes.  
ÏÏ§Ï  
ÏÏ©Ï ----jGRASP: operation complete.  
¼¼ÏÏ