**Worksheet 5.2**

# Introduction to Classes

# 1. Find the exact output for the code below.

# class PizzaParlor{

# // instance variables

# private int myNumCheesePizzas; //# of cheese pizzas

# private int myNumPeppPizzas; // # of pepperoni pizzas

# private int myNumVegPizzas; //# of veggie pizzas

# private int myCheeseSupply; // ounces of cheese

# private int myPepperoniSupply;// ounces of pepperoni

# private int myVeggieSupply; // ounces of veggies

# private double myRevenue; // dollars collected

# private double myOrigAcctBal;//original bank account balance

# // constructor

# PizzaParlor(){

# myNumCheesePizzas = 0;

# myNumPeppPizzas = 0;

# myNumVegPizzas = 0;

# myCheeseSupply = 400;

# myPepperoniSupply = 200;

# myVeggieSupply = 200;

# myRevenue = 0;

# myOrigAcctBal = 1000;

# }

# // methods

# void orderCheese(){

# myNumCheesePizzas++;

# myRevenue += 8;// cheese pizza price:$8

# myCheeseSupply -= 12;//cheese needed per cheese pizza

# }

# void orderPepperoni(){

# myNumPeppPizzas++;

# myRevenue += 10;//pepperoni pizza price:$10

# myCheeseSupply -= 8;//cheese needed per pepp pizza

# myPepperoniSupply -= 6;//pepperoni needed per pepp pizza

# }

# void orderVeggie(){

# myNumVegPizzas++;

# myRevenue += 11;//veggie pizza price:$11

# myCheeseSupply -= 8;//cheese needed per veggie pizza

# myVeggieSupply -= 12;//veggies needed per veggie pizza

# }

# int getNumCheesePizzas(){

# return myNumCheesePizzas;

# }

# int getNumPepperoniPizzas(){

# return myNumPeppPizzas;

# }

# int getNumVeggiePizzas(){

# return myNumVegPizzas;

# }

# int getCheeseSupply(){

# return myCheeseSupply;

# }

# int getPepperoniSupply(){

# return myPepperoniSupply;

# }

# int getVeggieSupply(){

# return myVeggieSupply;

# }

# double getRevenueTotal(){

# return myRevenue;

# }

# double getBankAccountBalance(){

# return myOrigAcctBal + myRevenue;

# }

# }

//-------------------- End of PizzaParlor class --------------------//

# public class PizzaTester{

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

# PizzaParlor diner = new PizzaParlor();

# 

# diner.orderCheese();

# diner.orderCheese();

# diner.orderPepperoni();

# diner.orderCheese();

# diner.orderPepperoni();

# diner.orderVeggie();

# diner.orderCheese();

# diner.orderVeggie();

# diner.orderPepperoni();

# diner.orderCheese();

# System.out.println("# of Cheese ordered is "

# + diner.getNumCheesePizzas());

# System.out.println("# of Pepperoni ordered is "

# + diner.getNumPepperoniPizzas());

# System.out.println("# of Veggie ordered is "

# + diner.getNumVeggiePizzas());

# System.out.print("\nRemaining supply of cheese in ounces is: ");

# System.out.println(diner.getCheeseSupply());

# System.out.print("Remaining supply of pepperoni in ounces is: ");

# System.out.println(diner.getPepperoniSupply());

# System.out.print("Remaining supply of veggies in ounces is: ");

# System.out.println(diner.getVeggieSupply());

# System.out.println("\nRevenue is $" + diner.getRevenueTotal());

# System.out.println("Bank balance is now $"

# + diner.getBankAccountBalance());

# }

# }

# 2. Enhance this code to keep track of the pizza parlor's dough supply that is needed to make the pizzas. Add a private variable called myDoughSupply and initialize it to 400 ounces. Decrease this supply by 11 ounces for each pizza made. Then add a method called getDoughSupply() that will report the current supply of dough. You'll also have to revise the number of each type of pizza ordered. With these revisions, your output should look as follows:

# # of Cheese ordered is 3

# # of Pepperoni ordered is 4

# # of Veggie ordered is 3

# Remaining supply of cheese in ounces is: 308

# Remaining supply of pepperoni in ounces is: 176

# Remaining supply of veggies in ounces is: 164

# Remaining supply of dough in ounces is: 290

# Revenue is $97.00

# Bank balance is now $1097.00