**AP Computer Science - Pizza Project**

You will be creating a three class project, which will be used to take Pizza orders and output receipts.

Class # 1 - ***Pizza***

**Data Fields**

* *pizzaNum* (int) - This will increase by 1 and keep track of each pizza by assigning it an incrementing value each time a new Pizza is ordered. (Start with a value of 1)
* ArrayList<String> *toppings* - This ArrayList will keep track of the toppings that are added to the pizza.
* *cost* (double) - Tracks the cost of this pizza
* *size* (char) - Holds S, M or L to track the size of the pizza. (Small, Medium, Large)

**Methods**

* getMethods should be created for all datafields
* *addTopping* ***-*** This method will receive a String and add that string into the *toppings* ArrayList. However, before doing so, it will first check to make certain that topping has not already been added to the pizza.
* *removeTopping* - This method will attempt to remove a String from the toppings ArrayList. It should output an appropriate message if the topping is not currently on the pizza.
* *calculatePrice* - This will calculate the price of the pizza using the following formula:
  + Base price of pizza is based on its size: Small - $5, Medium - $7, Large - $10
  + Each topping increases the cost of the pizza by 75 cents, except extra cheese, which increases the cost by $1.15
* *outputPizza* - This method will output the Pizza details in the format shown below:

Pizza Expected Output:

Pizza # 1

Pizza size = M

Topping # 1 - pepperoni

Topping # 2 - sausage

Pizza cost = $ 8.50

Class # 2 - PizzaOrder

**Data Fields**

* *orderNumber* (int) - This will increase by 1 and keep track of each order by assigning it an incrementing value each time a new order is created (Start with a value of 1)
* *customer* (String) - Holds the name of the customer who is ordering the pizza.
* *items* (ArrayList<Pizza> ) - Holds the Pizza objects that are a part of the order.
* *totalPrice* (double) - Holds the total cost of the enter order, including 6% sales tax.
* *TAX* (double constant) - This should be assigned a value of .06

**Methods**

*addItem* - This method will add a Pizza object into the items ArrayList.

*calculateTotalPrice* - This method will calculate the total cost of the order, including 6% sales tax.

*finalizeOrder* - This method output the current customer order. Base your output based on the following page:

Order Expected Output:

####################

Order Number 1

####################

Customer: Mr. Dixon

Number of items ordered: 2

Pizza # 1

Pizza size = M

Topping # 1 - pepperoni

Topping # 2 - sausage

Pizza cost = $ 8.50

Pizza # 2

Pizza size = L

Topping # 1 - extra cheese

Topping # 2 - ham

Topping # 3 - onions

Pizza cost = $ 12.65

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Order subtotal = $21.15

Sales tax = $1.26

Grand total = $22.41

Order Number 1 completed.

Class # 3 - PizzaRunner

Provided for you. Download it and expected output from the weebly. April 17 2014