CSCI 1300 Recitation HW 10

Question 1:

```
#include <iostream>

using namespace std;

class Temperature {
public:
    Temperature(double t) {
        temp = t;
    }

    double getTemp() {
        return temp;
    }

private:
    double temp;
};

int main() {
    //removed const from object creation
    Temperature todayTemp(98.6);
    cout << "Today's temperature is:" << todayTemp.getTemp() << "degrees." << endl;
    return 0;
}
```

Question 2:

```
#include <iostream>
using namespace std;

class Account {
public:
    Account(double bal) {
        balance = bal; //changed "amount" to "balence"
    }

    double getBalance() const {
        return balance;
    }
private:
    double balance;
};

int main() {
    Account myAcc(1000.0);
    cout << "Current balance:" << myAcc.getBalance() << endl;
    return 0;
}
```

Question 3:

```
#include <iostream>
using namespace std;

//added private and public keywords
class Car {
public:
    void setMiles(int newMiles) {
        milesDriven = newMiles;
    }
private:
    int milesDriven;
};

int main() {
    Car myCar;
    myCar.setMiles(100);
    return 0;
}
```

Question 4:

```
#include <iostream>
using namespace std;

struct Pizza
{
    string name;
    string size;
    double price;
};

struct Order
{
    Pizza pizza[10];
    int numPizzas = 0;
};

void displayPizza(Pizza pizza){
    cout << pizza.size << "-" << pizza.name << ":-$" << to_string(pizza.price) << endl;
}

void addPizza(Order& order, Pizza pizza){
    if(order.numPizzas >= 10){
        cout << "Unable-to-add-pizza-as-order-is-full." << endl;
    }else{
        order.pizza[order.numPizzas] = pizza;
        order.numPizzas = order.numPizzas + 1;
    }
}

double calculateTotal(Order order){
```

```
    double total = 0;
    for(int i = 0; i < order.numPizzas; i++){
        total += order.pizza[i].price;
    }
    return total;
}

void displayOrder(Order order){
    for(int i = 0; i < order.numPizzas; i++){
        displayPizza(order.pizza[i]);
    }
    cout << "The total for this order is: $" << calculateTotal(order) << endl;
}

int main(){
    Pizza pizza1;
    pizza1.name = "a pizza 1";
    pizza1.size = "medium";
    pizza1.price = 14.90;
    Pizza pizza2;
    pizza2.name = "a pizza 2";
    pizza2.size = "large";
    pizza2.price = 18.90;
    Pizza pizza3;
    pizza3.name = "a pizza 3";
    pizza3.size = "small";
    pizza3.price = 10.90;
    Order myOrder;
    addPizza(myOrder, pizza1);
    addPizza(myOrder, pizza2);
    addPizza(myOrder, pizza3);
    cout << myOrder.numPizzas << endl;;
    displayOrder(myOrder);
}
```