CSIS 137 Krystal Maughan UML for Homework 5 (final) : Polymorphic

Main

#include "OvernightPackage.h" #include "Package.h" #include "TwoDayPackge.h"

OvernightPackage: Package

public:

- +OvernightPackage(const string &, const string &, const string &, const string &, double, double, double);
- + void setOverNightFeePerOunce(double);
- + double getOverNightFeePerOunce() const;
- + double calculateCost() const;

private:

- double overnightFeePerOunce;

Package

private:

- string name;
- string address;
- string city;
- string state;
- string senderzip;
- string reczip;
- double weight:
- double costperounce;

public:

+ Package(const string &, const string &, const string &, const string &, const string &, double = 0.0, double = 0.0);

// getters and setters

- + void setName(const string &);
- + string getName() const;
- + void setAddress(const string &);
- + string getAddress() const;
- + void setCity(const string &);
- + string getCity() const;
- + void setState(const string &);
- + string getState() const;
- + void setSenderZip(const string &);
- + string getSenderZip() const;
- + void setRecZip(const string &);
- + string getRecZip() const;
- + void setWeight(const double &);
- + double getWeight() const;
- + void setCostPerOunce(const double &);
- + double getCostPerOunce() const;
- + virtual double calculateCost(double, double); // multiply weight * cost per ounce

TwoDayPackage : Package

oublic:

- + TwoDayPackage(const string &, const string &, const string &, const string &, const string &, double, double, double);
- + void setFlatFee(double);
- + double getFlatFee() const;
- + double calculateCost() const;

private:

- double flatFee;