

Object Oriented Programming

Homework 1

1. Assume you are required to create an inventory system. What important pieces of data (attributes) should you included in a new *data type* called **product**? (List at least 5 different pieces of information that would be valuable to included in the new **product** data type (record)) . Include the name, specific data type and reason/example of data attribute will hold. For example

Attribute Name	Data Type	Reason
name	string	identifies the product name (e.g. shoes)

2. Create a new **Product** data type (using **struct**). Your new product data type should include enough data types to calculate the dollar amount of on-hand inventory.
3. Write a small program that includes:
 - a. A function that calculates and returns the dollar amount of on-hand inventory for the passed in product. A function prototype for your function should be:
float calculateOnHandInventory(Product p);
 - b. Initializes (assign values to) the newly created product variables (objects). (we did this manually during the coding example in Thursday's class).
 - i. Not Required....EXTRA CREDIT. write a function to initializes the product variable with passed in parameters)
 - c. Write a main function that
 - i. Creates at least two Product data types
 - ii. calls the ***calculateOnHandInventory()*** function to calculate the on-hand dollar amount for that particular product.
 - iii. Prints out the product name and on-hand dollar amount of each product
 - iv. Sums and prints total dollar amount for inventory

Due Tuesday 11:59 pm.

The example coding demonstrated in Thursday class is a very good place to start!

Start today, don't wait. It is unlikely you will get timely help after 5:00 pm on Monday.