**Product Class**

The product class included the following functions

1. Name
2. Description
3. Size
4. Price
5. Quantity
6. Seller Name
7. Category

In order to declare those functions programmer used three kinds of variables which were integer, string, and double. String used for Name, Description, Seller Name, Category, and size. Rest of the variables double and integer deployed to get the price and quantity, respectively. The programmer wrote the code to declare what the product’s description and the type of information it will hold. The programmer used a constant identifier to describe each product. Through this code (string) we were mainly targeting the description and linking each product to a specific category. We chose 5 categories; electronics, kitchen, outdoors, clothing and exercising equipment. Since the project is a store (Cheap Mart) similar to Amazon, the programmer had to ensure proper methods were included. Certain strings were used for this program, for example the variable declaration to specify the variable name and the type of information that particular product hold. Along with the variable declaration, the programmer also used the set character with each character corresponding to a specific price. Also, there were setter and getter methodes used to make easier to deploy this program.

**ShoppingDriver class**

This class contains main function and combines all the other classes.

The function of this class is to give the option to the user for shopping different products and checking out with the cart.

The class imports scanner to get input from user for getting the product options, quantity, shipping address, credit card details and some other things.

The class also imports the decimal formatting used to display for the final price in 2 decimal points.

The class contains object from the Product class with valid parameters that is as follows:

1. Name of the product,
2. Description
3. Size
4. Price
5. Quantity
6. Seller
7. And Category

Most of the above parameters can be returned by getter method and also changed by setter methods.

The class shoppingDriver also contains Cart class that is used to add the product to the class with valid descriptions and also the Boolean that return if the transaction is successful or not.