Assignment Topic: (Classes,objects,Inheritance)

1. Create a class Customer that extends Person class with constructors ,getters and setters.

Customer

custCode:long

email:String

cart:Cart

boolean purchaseProduct(Product product,int qty)

void showCart()

purchaseProduct() creates a PurchasedProduct and adds to the cart

showCart () prints the cart details .

Create classes Product,PurchasedProduct,Cart as required.

Product

productId:int

productDesc:String

price:double

stock:long

Cart

cartItems:List of PurchasedProducts

PurchasedProduct

Product:Product

Qty:int

Amount:double

Write a Client Program as follows;:

Cart samCart=new Cart();

…………………………..

Customer sam=new Customer(“sam”,address,1234,”[sam123@gmail.com](mailto:sam123@gmail.com)”,samCart)

Sam.purchaseProduct(new Product(…….),20);

Sam.purchaseProduct(new Product(…….),10);

Sam.purchaseProduct(new Product(…….),30);

sam.showCart();