4/3/65 15:05 Product.java

```
import java.util.Date;
public class Product{
  private String name;
  private String code;
  private double sellprice=0;
  private double buyprice=0;
   private int quantity=0;
   private Date lastDate edited;
  private static boolean shop_open=true;
  //constructor
  public Product(String name,String code){
     this.name=name;
     this.code=code;
     this.lastDate_edited=new Date();
  public Product(String name,String code,double sellprice,double buyprice,int quantity){
     this.name=name:
     this.code=code;
     this.sellprice=sellprice:
     this.buyprice=buyprice;
     this.quantity=quantity;
     this.lastDate edited=new Date();
  //accessor
   public String getName(){return name;}
  public String getCode(){return code;}
  public double getSellprice(){return sellprice;}
  public double getBuyprice(){return buyprice;}
  public int getQuantity(){return quantity;}
   public Date getLastDate edited(){return lastDate edited;}
  public static boolean getShop_open(){return shop_open;}
  //mutator
  public void setName(String name){this.name=name;this.lastDate edited=new Date();}
  public void setCode(String code){this.code=code;this.lastDate edited=new Date();}
  public void setSellprice(double sellprice){
     if(sellprice<0){
        System.out.println("Sell price cannot be negative");
        return:
     }
     this.sellprice=sellprice;
     this.lastDate_edited=new Date();
   public void setBuyprice(double buyprice){
     if(buyprice<0){
        System.out.println("Buy price cannot be negative");
        return;
     }
     this.buyprice=buyprice;
     this.lastDate_edited=new Date();
  public static void setShop_open(boolean shop_open){
     Product.shop_open=shop_open;
  //function
  public void addQuantity(int quantity){
     if(quantity<0){
        System.out.println("Quantity must be positive");
        return;
     this.quantity+=quantity;
     this.lastDate_edited=new Date();
  public double sellprofit(int quantity){
     if(getShop_open()==false){
```

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System.out.println("Shop is closed");
         return 0;
      }
     if(quantity<0){
         System.out.println("Quantity must be positive");
         return 0;
     if(quantity>this.quantity){
         System.out.println("Not enough quantity");
         return 0;
     this.quantity-=quantity;
     this.lastDate_edited=new Date();
      return quantity*(this.sellprice-this.buyprice);
  public String toString(){
      return "Product Name: "+this.name+
      "\nCode: "+this.code+
      "\nSell price: "+this.sellprice+
"\nBuy price: "+this.buyprice+
      "\nQuantity: "+this.quantity+
      "\nLast date edited: "+this.lastDate_edited;
  }
}
```