**Cricket Kit Contribution - Requirement 5**

**Requirement 5:**   
  
a) Create a Class Purchase with the following attributes: 

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| id | Long |
| purchaseDate | Date |
| totalAmount | Double |
| user | String |

b) Mark all the attributes as private  
  
c) Create / Generate appropriate Getters & Setters  
  
d) Add a default constructor and a parameterized constructor to take in all attributes in the given order: Purchase(Long id, Date purchaseDate, Double totalAmount, String user)  
  
e) Write the below static method in the purchase class,

|  |  |
| --- | --- |
| **Method Name** | **Description** |
| static Purchase obtainPurchaseWithAmount(String str) | Accepts an argument of type String and returns a Purchase object if the number of items in the input is greater than equal to 5, else throws **InvalidWholeSaleException.** |

i.e totalAmount = cost of item1 \* quantity1 + cost of item2 \* quantity2 + cost of item3 \* quantity3 ...  
  
f) Create a custom exception(**InvalidWholeSaleException**) which throw the error message "Purchase [purchase id] is not a wholesale", where [purchase id] indicated is the id of the purchase.This exception is raised when the number of item in a purchase is less than 5. Don't add the purchase to the list.  
  
g) The purchase class should implement the Comparable interface and sort the purchase list using the totalAmount of the purchase. Assume the total amount of purchase is different for all the purchase.  
  
The purchase details should be in the given format.  
**purchase id,purchase date, user,item name 1, item cost 1, item quantity 1,item name 2, item cost 2, item quantity 2,.............**  
Eg: 2,12-12-2012,Peter,Bat,1500,3,Ball,60,8,Stump,340,1  
  
h) Display all the purchase details in the given format,Print  
Format:  
System.out.format("%-10s %-15s %s\n","ID","User","Amount");  
  
i) Display all the purchase details in the given format,  
**Print Format:**  
**System.out.format("%-10s %-15s %s\n","ID","User","Amount");**  
  
**Sample INPUT & OUTPUT:**  
Enter the number of purchase:  
**4**  
Enter the purchase details:  
**1,12-12-2012,John,Bat,1500,5,Ball,60,2,Stump,340,15,helmet,925,8,Pad,600,20,Gloves,450,35,Guard,120,4**  
Purchase 1 is added to the list  
**2,12-12-2012,Peter,Bat,1500,3,Ball,60,8,Stump,340,1**  
InvalidWholeSaleException: Purchase 2 is not a whole sale  
**3,12-12-2012,Jack,Bat,1500,7,Ball,60,1,Stump,340,5,helmet,925,5,Pad,600,15**  
Purchase 3 is added to the list  
**4,12-12-2012,Jack,Bat,1500,1**  
InvalidWholeSaleException: Purchase 4 is not a whole sale  
Whole sale purchases:  
ID         User            Amount  
3          Jack            25885.0  
1          John            48350.0