**Cricket Kit Contribution - Requirement 3**

**Requirement 3:**   
a)Create a Class Item with the following attributes: 

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| id | Long |
| name | String |
| itemCode | String |
| cost | Double |

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: Item(Long id, String name, String itemCode, Double cost)  
When the “item” object is printed, it should display the following details  
Print format:  
**System.out.format("%-10s %-10s %s\n", "Name", "Code", "Cost");**  
  
e) Create the following static methods in the Item class

|  |  |
| --- | --- |
| **Method Name** | **Description** |
| static Item createItem(String itemDetail) | Split the string and create the item object using the splitted values and return the item object. |
| static Item searchItemByName(String itemName, List<Item> itemList) | Search the list with the given item name and return the item object with the given name. Assume there will be unique items in the list. |
| static List<Item> findAllItemByPriceRange(List<Item> itemList, Double minRate, Double maxRate) | The method takes a item list, minimum rate and maximum rate as parameter and then filter all the items between the price range and return the list of items between the range. (both minrate and maxrate inclusive) |

The input format  consists of item details seperated by comma in the below order,  
(id,name,itemCode,cost)   
  
**Sample INPUT & OUTPUT 1:**   
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**1**  
Enter the number of items:  
**3  
1,Bat,ITM01,2500.0  
2,Ball,ITM02,200.0  
3,Stump,ITM03,420**  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**2**  
Enter the name:  
**Bat**  
Item Detail  
Item name: Bat  
Item code: ITM01  
Item Cost: 2500.0  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**2**  
Enter the name:  
**Cat**  
Item Cat not found  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**3**  
Enter the min and max cost:  
**100  
500**  
Name       Code       Cost  
Ball       ITM02      200.0  
Stump      ITM03      420.0  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**1**  
Enter the number of items:  
**1  
4,Byles,ITM04,75.0**  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**2**  
Enter the name:  
**Byles**  
Item Detail  
Item name: Byles  
Item code: ITM04  
Item Cost: 75.0  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**3**  
Enter the min and max cost:  
**50  
450**  
Name       Code       Cost  
Ball       ITM02      200.0  
Stump      ITM03      420.0  
Byles      ITM04      75.0  
1. Add items  
2. Search item by name  
3. Get item between price range  
4. Exit  
Enter your choice:  
**4**