Introductory Java Refresher
Lab Assignment 3 - Section A, B
IIIT-Delhi. 29th July 2017. Due by 8am on 31st July 2017
(Total 20 points)

No extensions will be provided. Any submission after the deadline will not be evaluated. If you see an ambiguity or inconsistency in a question, please seek a clarification from the teaching staff.

Plagiarism: All submitted homeworks are expected to be the result of your individual effort. You should never misrepresent someone else's work as your own. In case any plagiarism case is detected, it will be dealt very seriously and the assignment marks will also be nullified.

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Design a point of sale system for IIITD Fruit Stall which acts as central component of any business. This system will be used by any business to make transactions, track inventory and record sale for the different items.

- Track inventory feature is helpful to keep track of quantity of items available in store.
- Record sale feature is helpful to keep track of quantity of items sold from the total available.

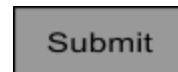Assume below is the initial status of inventory at the start of the day -

Items	Quantity
Apple	10
Mango	6
Orange	8
Pineapple	4
Banana	2

Suppose Customer 1 comes and buys 2 Apples, 3 Mangoes and 3 Pineapples, so the status of inventory should immediately change to below -

Items	Quantity
Apple	8
Mango	3
Orange	8
Pineapple	1
Banana	2

Above operation should be displayed as below in POS. Design a GUI based Java application which shows the status of POS system at any point of time.

IIITD Fruit Stall			
Inventory		User	
Items	Quantity	Items	Quantity
Apple	8	Apple	2
Mango	3	Mango	3
Orange	8	Orange	0
Pineapple	1	Pineapple	3
Banana	2	Banana	0
Total	22	Total 8	Submit

As soon as user clicks on submit button, the status of inventory should change to the (Total Available - Number of items sold).

You have to consider the case if inventory for certain item becomes zero. This has to be done as following: after putting any value in "quantity" field for that invalid item, clicking the submit button will disable the "Quantity" field for that item and then "Total" should display the total for rest other available items.