## Case Study Topic: Java Collections

## A

## Create a java class Merchandise that has the following attributes:

## Code String, description String,unitPrice double, stock long.

## Class Store stores a list of Merchandise and has the following functionalities.

## Boolean addProduct(..) that adds the product to the Store if the item does not exist.

## Boolean deleteProduct(String code) that deletes a product from list.

## Merchandise searchProduct(String code) that searches the product based on the code.

## Boolean updateStock(String code,long newStock) that adds the newstock to the existing stock.

## Write a Client to test all the functionalities.

## B

## Change the List of Merchandise to a Set (TreeSet) and make changes as applicable.

C

## Create a class Cart that has a Map of <code ,Product> where Product has the Merchandise bought with quantity and amount.

## Cart has the following functionalities:

## A Adding a Product to the Cart.

## B Modifying the quantity

## C Deleting the Product

## D Generates the Bill along with the products purchased.

## D

## Write a method boolean displayStore(List<Merchandise>) that receives the Store object and Displays the List of Merchandise in the Sorted order.