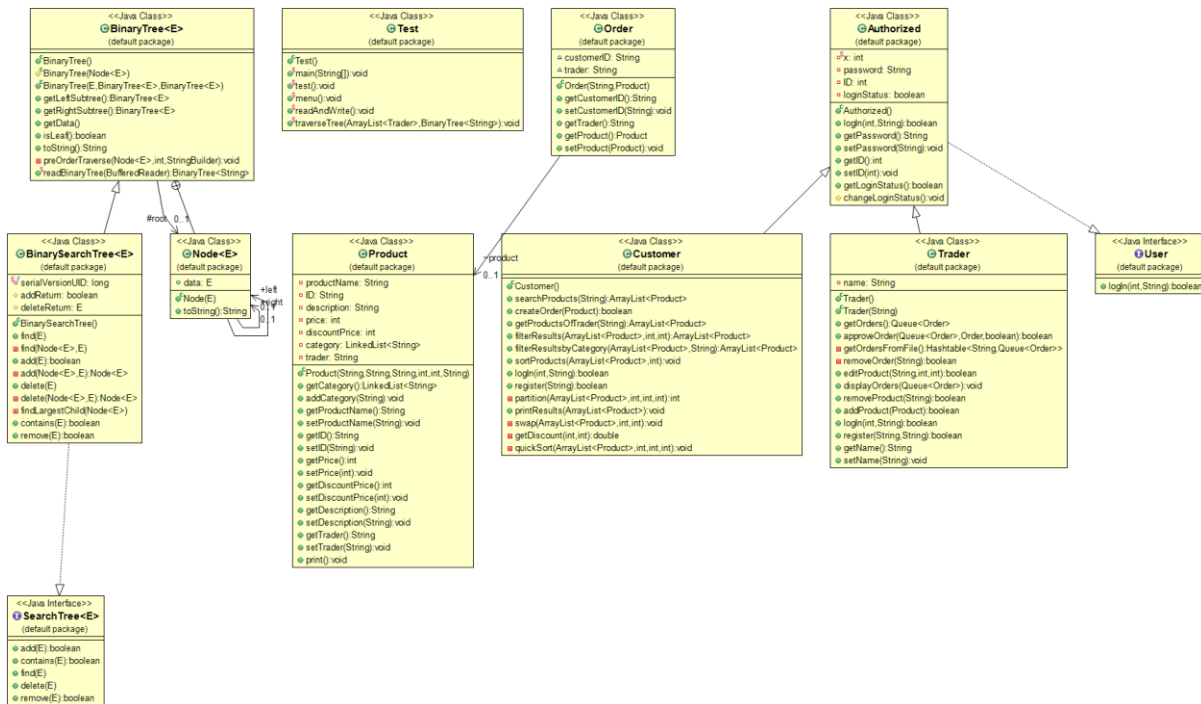


**GIT Department of Computer Engineering
CSE 222/505 - Spring 2021
Homework 6 Report**

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Student Number
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1. CLASS DIAGRAM



2. PROBLEM SOLUTION APPROACH

Authorized class is created which implements user interface. After it's done Customer and Trader classes created which are extends authorized class. Then the order and product classes created. After the basically classes are created without data fields, global function created to read csv file from moodle page to create my own data files. I decide to use binary search tree to hold the traders. So this way one trader couldn't be in there more than one and the binary search tree find method is very efficient to checks whether there is or not and the users are sorted alphabetically. For the products create products.txt created and placed products from csv file. To write the traders from binary search to users.txt , another global function is created to traverse tree. After the writing file is done, product class is designed. To be able to hold the categories to in hierarchy Linked List of string is created. I split the string from products.txt and add the category to linked list. After the necessary functions implemented, customer class is designed. To hold the search results of products, I prefer Array List because I will need to random access to implement other functions and Array List could be sorted so easily. I prefer the quick sort for the sorting processes. It could be very efficient on big data and sorting time is very quick. For the login function I decided to use boolean variable to be able to check whether customer logged in or not. To use the other customer's function customer's log in function must be call. For the trader class, Hash Table used when reading orders from file, which it's key is Trader ID and value is a queue of orders. So, hash table give me an opportunity to get orders of trader constant time. Orders hold in queue. So I add orders in constant

time. Login system works like the customer's class. After that, order class is created. Driver function and menu function created.

3. TEST CASES

Csv file readed.

```
try {
    readAndWrite();
} catch (NumberFormatException e) {
    System.out.println("CSV file is not suitable!");
    e.printStackTrace();
} catch (IOException e) {
    System.out.println("File couldn't open!");
    e.printStackTrace();
}
```

Customer created and registered in to system and try it one more time to check customer already registered or not.

```
System.out.println("Customer created and It's registered with this password : 123456");
Customer samet = new Customer();
System.out.println(samet.register("123456"));
System.out.println("-----");
System.out.println("Customer trying to register to system again:");
System.out.println(samet.register("123456"));
```

Customer logged in and search and prints the results to terminal.

```
System.out.println("Customer logging to system!");
System.out.println(samet.logIn(samet.getID(), "123456"));
System.out.println("-----");
System.out.println("-----\n\n");
System.out.println("Customer searching products which is given word as a Shorts.\nSearch results are printing to terminal as a sorted way!");
searchResults = samet.searchProducts("Shorts");
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
```

Results filtered by category than print the results to terminal.

```
System.out.println("-----\n\n");
System.out.println("Products which are searched filtering by category name as an Jeans & Shorts!");
searchResults = samet.filterResultsbyCategory(searchResults, "Jeans & Shorts");
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
```

Search results displayed according to their price increasing order.

```
System.out.println("-----\n\n");
System.out.println("Search results are sorting according to their prices to increasing order");
samet.sortProducts(searchResults, 0);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
```

Search results displayed according to their price decreasing order.

```
System.out.println("-----\n\n");
System.out.println("Search results are sorting according to their prices to decreasing order");
samet.sortProducts(searchResults, 1);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
```

Search results displayed according to their name decreasing order.

```
System.out.println("Search results are sorting according to their names to decreasing order");
samet.sortProducts(searchResults, 2);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
```

Search results displayed according to their name increasing order.

```
System.out.println("-----\n\n");
System.out.println("Search results are sorting according to their names to increasing order");
samet.sortProducts(searchResults, 3);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
```

Search results displayed according to discount amount increasing order.

```
System.out.println("-----\n\n");
System.out.println("Search results are sorting according to their discount amount increasing order");
samet.sortProducts(searchResults, 4);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
```

Search results displayed according to discount amount decreasing order.

```
System.out.println("Search results are sorting according to their discount amount decreasing order");
samet.sortProducts(searchResults, 5);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
```

Search results displayed with both lower bound, upper bound or one of them.

```
System.out.println("-----\n\n");
System.out.println("Search results are filtering by lower bound 250");
searchResults = samet.filterResults(searchResults, 250, -1);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
System.out.println("Search results are filtering by upper bound 1000");
searchResults = samet.filterResults(searchResults, -1, 1000);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
System.out.println("-----\n\n");
System.out.println("Search results are filtering by lower bound 250 and upper bound 750");
searchResults = samet.filterResults(searchResults, 250, 750);
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
}
```

Orders created from search results.

```
System.out.println("Customer creating order by first of search results and the second one:");
System.out.println(samet.createOrder(searchResults.get(0)));
System.out.println(samet.createOrder(searchResults.get(1)));
```

Customer search products of trader is done.

```
System.out.println("Customer searching products of trader Alisha");
searchResults = samet.getProductsOfTrader("Alisha");
for(int i=0;i<searchResults.size();i++) {
    searchResults.get(i).print();
}
```

Trader created and logged in.

```
System.out.println("-----\n\n");
System.out.println("Trader is creating named as Alisha from csv file and logging In");
Trader alisha = new Trader("Alisha");
System.out.println(alisha.logIn(10000001, "123456"));
System.out.println("-----\n\n");
```

Trader create product and added to system and product tried to add twice.

```
Product product = new Product("Table", "12324241", "Metal Tables", 750, 400,"Alisha");
product.addCategory("Furniture");
product.addCategory("Tables");
System.out.println("Alisha adding product named as table");
System.out.println(alisha.addProduct(product));
System.out.println("-----\n\n");
System.out.println("Alisha trying to add same product again");
System.out.println(alisha.addProduct(product));
System.out.println("-----\n\n");
```

Trader edit the product price and edit the product which is not exist.

```
System.out.println("Alisha trying to edit table prices");
System.out.println(alisha.editProduct("12324241", 0, 0));
System.out.println("-----\n\n");
System.out.println("Alisha trying to edit product which is not in the storage prices");
System.out.println(alisha.editProduct("34343", 0, 0));
System.out.println("-----\n\n");
```

Trader remove product and try to remove it again.

```
System.out.println("Alisha trying to remove table product");
System.out.println(alisha.removeProduct(product.getID()));
System.out.println("-----\n\n");
System.out.println("Alisha trying to remove table product again");
System.out.println(alisha.removeProduct(product.getID()));
System.out.println("-----\n\n");
```

Another trader created to checks the functionality of orders.

```
Trader bigCompany = new Trader("Big Company");
System.out.println(bigCompany.logIn(10000154, "123456"));
System.out.println("-----\n\n");
Queue<Order> orders = bigCompany.getOrders();
bigCompany.displayOrders(orders);
System.out.println("-----\n\n");
```

Trader approve the first order and cancel the second order.

```
System.out.println("Big company meets first order.");
System.out.println(bigCompany.approveOrder(orders, orders.peek(), true));
System.out.println("Big company cancel second order.");
System.out.println(bigCompany.approveOrder(orders, orders.peek(), false));
```

4. RUNNING AND RESULTS

There is the results of driver. Menu functions are tested and worked fine.

```
---Test Started---
CSV file readed and 'products.txt' is created!
Trader's pasword is 123456
Customer created and It's registered with this password : 123456
Your customer ID: 10003181
true
-----
Customer trying to register to system again:
false
-----
Customer logging to system!
true
```

Products which are searched filtering by category name as an Jeans & Shorts!

search results are sorting according to their prices to increasing order

Search results are sorting according to their prices to decreasing order

Search results are sorting according to their names to decreasing order

ID: SRTEGKWVWYKXC7GE NAME: R1PR Self Design Women's Multicolor Basic Shorts PRICE: 4742 DISCOUNTED PRICE: 1897DESCRIPTION: Key Features of R1PR Self Des: CATEGORY: Clothing>Women's Clothing>Fusion Wear>>Jeans & Shorts>>Shorts>>R1PR Shorts>>R1PR Self Design Women's Multicolor Basic Short>>
ID: SRTEJHHYXVAGCYRT NAME: Only Printed Women's Purple Basic Shorts PRICE: 1295 DISCOUNTED PRICE: 1295DESCRIPTION: Key Features of Only Printed Women's I CATEGORY: Clothing>Women's Clothing>Western Wear>>Jeans & Shorts>>Shorts>>Only Shorts>>Only Printed Women's Purple Basic Short>>
ID: SRTEAHHZH7WQ598 NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Ye. CATEGORY: Clothing>Women's Clothing>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
ID: SRTEAJNME9A2SGUZ NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Bl CATEGORY: Clothing>Women's Clothing>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
ID: SRTEAJNWI4KCHRC NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Bl CATEGORY: Clothing>Women's Clothing>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
ID: SRTEG78F2PFK24ZJ NAME: Ashdan Solid Women's Basic Shorts PRICE: 999 DISCOUNTED PRICE: 549DESCRIPTION: Key Features of Ashdan Solid Women's Basic Sho CATEGORY: Clothing>Women's Clothing>Western Wear>>Jeans & Shorts>>Shorts>>Ashdan Shorts>>Ashdan Solid Women's Basic Short>>

Search results are sorting according to their names to increasing order

ID:	SRTG78F2PFK242J	NAME:	Ashdan Solid Women's Basic Shorts PRICE: 999 DISCOUNTED PRICE: 549DESCRIPTIONTION: Key Features of Ashdan Solid Women's Basic Shorts 97% Cotton
CATEGORY:	Clothing>Women's		Clothing>Western Wear>Jeans & Shorts>Shorts>Ashdan Shorts>Ashdan Solid Women's Basic Short>
ID:	SRTAEJ3MJO4KHCXKE	NAME:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTIONTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Pri
CATEGORY:	Clothing>Women's		Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>
ID:	SRTAEJ3MNE9A2SGUJZ	NAME:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTIONTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Prin
CATEGORY:	Clothing>Women's		Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>
ID:	SRTFAH2HK7WQ9S8	NAME:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTIONTION: Nuteez Printed Women's Basic Shorts - Buy Yellow Nuteez Pr
CATEGORY:	Clothing>Women's		Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>
ID:	SRTXEJ3HYXVAGCYRT	NAME:	Only Printed Women's Purple Basic Shorts PRICE: 1295 DISCOUNTED PRICE: 1295DESCRIPTIONTION: Key Features of Only Printed Women's Purple Basic S
CATEGORY:	Clothing>Women's		Clothing>Western Wear>Jeans & Shorts>Shorts>Only Shorts>Only Printed Women's Purple Basic Short>
ID:	SRTGKQWYRMXVC7GE	NAME:	RIPR Self Design Women's Multicolor Basic Shorts PRICE: 4742 DISCOUNTED PRICE: 1897DESCRIPTIONTION: Key Features of RIPR Self Design Women's Mu
CATEGORY:	Clothing>Women's		Clothing>Fusion Wear>Jeans & Shorts>Shorts>RIPR Shorts>RIPR Self Design Women's Multicolor Basic Short>

Search results are sorting according to their discount amount increasing order

ID:	SRTGEGNYRVMXC7GE NAME:	RIPR Self Design Women's Multicolor Basic Shorts PRICE: 4742 DISCOUNTED PRICE: 1897DESCRIPTION: Key Features of RIPR Self Design Women's Mu
CATEGORY:	Clothing>Fusion Wear>Jeans & Shorts>Shorts>RIPR Shorts>RIPR Self Design Women's Multicolor Basic Short>	
ID:	SRTG678F2PFK2AZ2 NAME:	Ashdan Solid Women's Basic Shorts PRICE: 999 DISCOUNTED PRICE: 549DESCRIPTION: Key Features of Ashdan Solid Women's Basic Shorts 97K Cotton
CATEGORY:	Clothing>Women's Clothing>Western Wear>Jeans & Shorts>Shorts>Ashdan Shorts>Ashdan Solid Women's Basic Short>	
ID:	SRTAE41WJ43KHCXKE NAME:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Prin
CATEGORY:	Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>	
ID:	SRTAE41WJE9A25GUZ NAME:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Prin
CATEGORY:	Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>	
ID:	SRTAE41H7K47QK598 NAME:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Yellow Nuteez Pr
CATEGORY:	Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>	
ID:	SRTSXHYXVAGCYRT NAME:	Only Printed Women's Purple Basic Shorts PRICE: 1295 DISCOUNTED PRICE: 1295DESCRIPTION: Key Features of Only Printed Women's Purple Basic S
CATEGORY:	Clothing>Women's Clothing>Western Wear>Jeans & Shorts>Shorts>Only Shorts>Only Printed Women's Purple Basic Short>	

Search results are sorting according to their discount amount decreasing order

ID:	STRE3JHYXVAGCYRT Name:	Only Printed Women's Purple Basic Shorts PRICE: 1295 DISCOUNTED PRICE: 1295DESCRIPTION: Key Features of Only Printed Women's Purple Bas
CATEGORY:	(Clothing>Women's Clothing>Western Wear>Jeans & Shorts>Shorts>Only Shorts>Only Printed Women's Purple Basic Short>	
ID:	STREAHZH2KH7Q98 Name:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Yellow Nutee
CATEGORY:	(Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>	
ID:	STREAJNM9A25GZU Name:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez
CATEGORY:	(Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>	
ID:	STREAJNMJ4KHCXKE Name:	Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez
CATEGORY:	(Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>	
ID:	STRE7G78FP2K24ZJ Name:	Ashdan Solid Women's Basic Shorts PRICE: 999 DISCOUNTED PRICE: 549DESCRIPTION: Key Features of Ashdan Solid Women's Basic Shorts 97% Co
CATEGORY:	(Clothing>Women's Clothing>Western Wear>Jeans & Shorts>Shorts>Ashdan Shorts>Ashdan Solid Women's Basic Short>	
ID:	STRE6KGYRMVXG7GE Name:	RIPR Self Design Women's Multicolor Basic Shorts PRICE: 4742 DISCOUNTED PRICE: 1897DESCRIPTION: Key Features of RIPR Self Design Women'
CATEGORY:	(Clothing>Women's Clothing>Fusion Wear>Jeans & Shorts>Shorts>RIPR Shorts>RIPR Self Design Women's Multicolor Basic Short>	

Search results are filtering by lower bound 250

ID: SRTEJ3HVVVAGCYR NAME: Only Printed Nuteez Printed Women's Basic Shorts PRICE: 1295 DISCOUNTED PRICE: 1295DESCRIPTION: Key Features of Only Printed Women's Purple Basic Shorts>>
 CATEGORY: Clothing>>Women's Clothing>>Western Wear>>Jeans & Shorts>>Shorts>>Only Shorts>>Only Printed Women's Purple Basic Shorts>>
 ID: SRTEAHZH2HK7Q598 NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Yellow
 CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
 ID: SRTEAJNWE9A25GZU NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nut
 CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
 ID: SRTEAJNJJ4KHCXE NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nut
 CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
 ID: SRTEG78F2PFK4ZJ NAME: Ashdan Solid Women's Basic Shorts PRICE: 999 DISCOUNTED PRICE: 549DESCRIPTION: Key Features of Ashdan Solid Women's Basic Shorts 99
 CATEGORY: Clothing>>Women's Clothing>>Western Wear>>Jeans & Shorts>>Shorts>>Ashdan Shorts>>Ashdan Solid Women's Basic Short>>
 ID: SRTEG4WVRWVC7GE NAME: R1PR Self Design Women's Multicolor Basic Shorts PRICE: 4742 DISCOUNTED PRICE: 1897DESCRIPTION: Key Features of R1PR Self Design W
 CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>R1PR Shorts>>R1PR Self Design Women's Multicolor Basic Short>>

Search results are filtering by upper bound 1000

ID: SRTEAH2HK7QJ598 NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 2990 DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Yellow Nuteez Printed Women's Basic Shorts > Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>

ID: SRTEAJW69A25GZU NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 2990 DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Printed Women's Basic Shorts > Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>

ID: SRTEAJWJ4KHCXR NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 2990 DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Printed Women's Basic Shorts > Fusion Wear>Jeans & Shorts>Shorts>Nuteez Short>

ID: SRTEG78F2PKZ4Z NAME: Ashdan Solid Women's Basic Shorts PRICE: 999 DISCOUNTED PRICE: 549 DESCRIPTION: Key Features of Ashdan Solid Women's Basic Shorts 97% Cotton, > Fusion Wear>Jeans & Shorts>Shorts>Ashdan Short>Ashdan Solid Women's Basic Short>


```
Search results are filtering by lower bound 250 and upper bound 750
ID: SRTEAHH2HK7NQ598 NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Yellow Nuteez Print
CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
ID: SRTEAJNME9A2SGUZ NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Printed
CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
ID: SRTEAJNWI4KHCXRE NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Printed
CATEGORY: Clothing>>Women's Clothing>>Fusion Wear>>Jeans & Shorts>>Shorts>>Nuteez Short>>
Customer creating order by first of search results and the second one:
true
true
```

```
Customer searching products of trader Alisha
ID: SRTEH2FF9KEDEFGF NAME: Alisha Solid Women's Cycling Shorts PRICE: 999 DISCOUNTED PRICE: 379DESCRIPTION: Key Features of Alisha Solid Women's Cycling Shorts Cotton Ly
CATEGORY: Clothing>>Women's Clothing >>Lingerie, Sleep & Swimwear >>Shorts >>Alisha Shorts >>Alisha Solid Women's Cycling Shorts>>
ID: SRTEH2FGHJZMQ6SJ NAME: Alisha Solid Women's Cycling Shorts PRICE: 699 DISCOUNTED PRICE: 267DESCRIPTION: Key Features of Alisha Solid Women's Cycling Shorts Cotton Ly
CATEGORY: Clothing>>Women's Clothing >>Lingerie, Sleep & Swimwear >>Shorts >>Alisha Shorts >>Alisha Solid Women's Cycling Shorts>>
ID: SRTEH2FVVKRBAXHB NAME: Alisha Solid Women's Cycling Shorts PRICE: 1199 DISCOUNTED PRICE: 479DESCRIPTION: Key Features of Alisha Solid Women's Cycling Shorts Cotton L
CATEGORY: Clothing>>Women's Clothing >>Lingerie, Sleep & Swimwear >>Shorts >>Alisha Shorts >>Alisha Solid Women's Cycling Shorts>>
ID: SRTEH2FVUHAHVH9X NAME: Alisha Solid Women's Cycling Shorts PRICE: 1199 DISCOUNTED PRICE: 479DESCRIPTION: Key Features of Alisha Solid Women's Cycling Shorts Cotton L
CATEGORY: Clothing>>Women's Clothing >>Lingerie, Sleep & Swimwear >>Shorts >>Alisha Shorts >>Alisha Solid Women's Cycling Shorts>>
ID: SRTEH2FGBDJGX8FW NAME: Alisha Solid Women's Cycling Shorts PRICE: 999 DISCOUNTED PRICE: 379DESCRIPTION: Key Features of Alisha Solid Women's Cycling Shorts Cotton Ly
CATEGORY: Clothing>>Women's Clothing >>Lingerie, Sleep & Swimwear >>Shorts >>Alisha Shorts >>Alisha Solid Women's Cycling Shorts>>
ID: SRTEH2FECMGJZJXJ NAME: Alisha Solid Women's Cycling Shorts PRICE: 999 DISCOUNTED PRICE: 379DESCRIPTION: Key Features of Alisha Solid Women's Cycling Shorts Cotton Ly
CATEGORY: Clothing>>Women's Clothing >>Lingerie, Sleep & Swimwear >>Shorts >>Alisha Shorts >>Alisha Solid Women's Cycling Shorts>>
-----
```

```
Trader is creating named as Alisha from csv file and logging In
true
-----
```

```
Alisha adding product named as table
true
-----
```

```
Alisha trying to add same product again
false
-----
```

```
Alisha trying to edit table prices
true
-----
```

```
Alisha trying to edit product which is not in the storage
false
-----
```

```
Alisha trying to remove table product
true
-----
```

```
Alisha trying to remove table product again
false
-----
```

```
New trader logging in as an Big Company to check orders.
true
-----
```

```
1) ID: SRTEAHH2HK7NQ598 NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Yellow Nuteez Pr
CATEGORY: Clothing>>Women's Clothing >> Fusion Wear >> Jeans & Shorts >> Shorts >> Nuteez Short>>
1) ID: SRTEAJNME9A2SGUZ NAME: Nuteez Printed Women's Basic Shorts PRICE: 399 DISCOUNTED PRICE: 299DESCRIPTION: Nuteez Printed Women's Basic Shorts - Buy Blue Nuteez Prin
CATEGORY: Clothing>> Women's Clothing >> Fusion Wear >> Jeans & Shorts >> Shorts >> Nuteez Short>>
-----
```

Big company meets first order.
true
Big company cancel second order.
true
1)Customer Menu
2)Trader Menu
3)Exit