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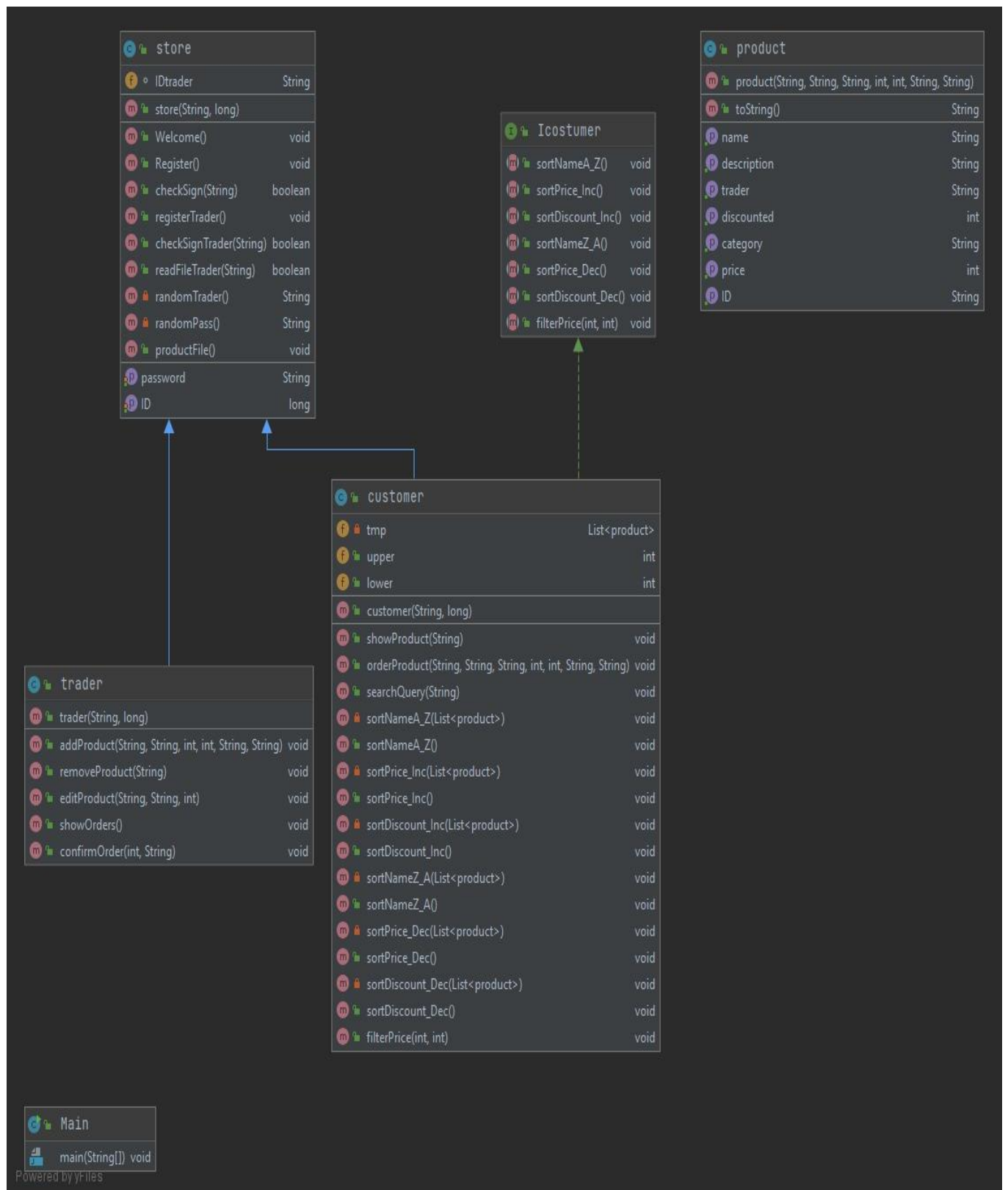# CSE 222/505 - Spring 2021
Homework 6 Report

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1-CLASS DIAGRAMS:

store
- f o IDtrader   String
- m store(String, long)
- m Welcome()   void
- m Register()   void
- m checkSign(String)   boolean
- m registerTrader()   void
- m checkSignTrader(String)   boolean
- m readFileTrader(String)   boolean
- m randomTrader()   String
- m randomPass()   String
- m productFile()   void
- p password   String
- p ID   long

Icostumer
- m sortNameA_Z()   void
- m sortPrice_Inc()   void
- m sortDiscount_Inc()   void
- m sortNameZ_A()   void
- m sortPrice_Dec()   void
- m sortDiscount_Dec()   void
- m filterPrice(int, int)   void

product
- m product(String, String, String, int, int, String, String)
- m toString()   String
- p name   String
- p description   String
- p trader   String
- p discounted   int
- p category   String
- p price   int
- p ID   String

customer
- f tmp   List<product>
- f upper   int
- f lower   int
- m customer(String, long)
- m showProduct(String)   void
- m orderProduct(String, String, String, int, int, String, String)   void
- m searchQuery(String)   void
- m sortNameA_Z(List<product>)   void
- m sortNameA_Z()   void
- m sortPrice_Inc(List<product>)   void
- m sortPrice_Inc()   void
- m sortDiscount_Inc(List<product>)   void
- m sortDiscount_Inc()   void
- m sortNameZ_A(List<product>)   void
- m sortNameZ_A()   void
- m sortPrice_Dec(List<product>)   void
- m sortPrice_Dec()   void
- m sortDiscount_Dec(List<product>)   void
- m sortDiscount_Dec()   void
- m filterPrice(int, int)   void

trader
- m trader(String, long)
- m addProduct(String, String, int, int, String, String)   void
- m removeProduct(String)   void
- m editProduct(String, String, int)   void
- m showOrders()   void
- m confirmOrder(int, String)   void

Main
- main(String[]) void

Powered by yFiles

store

🔶	password	String
🔶	ID	long
🔶	IDtrader	String
🔴	getPassword()	String
🔴	setPassword(String)	void
🔴	getID()	long
🔴	setID(long)	void
🔴	Welcome()	void
🔴	Register()	void
🔴	checkSign(String)	boolean
🔴	registerTrader()	void
🔴	checkSignTrader(String)	boolean
🔴	readFileTrader(String)	boolean
🔴	randomTrader()	String
🔴	randomPass()	String
🔴	productFile()	void

product

🔶	name	String
🔶	ID	String
🔶	discounted	int
🔶	price	int
🔶	trader	String
🔶	description	String
🔶	category	String
🔴	getName()	String
🔴	getCategory()	String
🔴	getDescription()	String
🔴	getDiscounted()	int
🔴	getID()	String
🔴	getPrice()	int
🔴	getTrader()	String
🔴	toString()	String

Icostumer

🔴	sortNameA_Z()	void
🔴	sortPrice_Inc()	void
🔴	sortDiscount_Inc()	void
🔴	sortNameZ_A()	void
🔴	sortPrice_Dec()	void
🔴	sortDiscount_Dec()	void
🔴	filterPrice(int, int)	void

customer

🔶	tmp	List<product>
🔶	upper	int
🔶	lower	int
🔴	showProduct(String)	void
🔴	orderProduct(String, String, String, int, int, String, String)	void
🔴	searchQuery(String)	void
🔴	sortNameA_Z(List<product>)	void
🔴	sortNameA_Z()	void
🔴	sortPrice_Inc(List<product>)	void
🔴	sortPrice_Inc()	void
🔴	sortDiscount_Inc(List<product>)	void
🔴	sortDiscount_Inc()	void
🔴	sortNameZ_A(List<product>)	void
🔴	sortNameZ_A()	void
🔴	sortPrice_Dec(List<product>)	void
🔴	sortPrice_Dec()	void
🔴	sortDiscount_Dec(List<product>)	void
🔴	sortDiscount_Dec()	void
🔴	filterPrice(int, int)	void

trader

🔴	addProduct(String, String, int, int, String, String)	void
🔴	removeProduct(String)	void
🔴	editProduct(String, String, int)	void
🔴	showOrders()	void
🔴	confirmOrder(int, String)	void

Main

🔴	main(String[])	void

2-PROBLEM SOLUTION APPROACH:

- I made the registration to the system in the Store class (For Users). While exporting registreted traders to a seperated file (trader_users.txt), I randomly generated the password and ID. Also in this class I did take the data from the csv file and save it to the product.txt file. In the trader class, I have added products to product.txt, removing and changing the product in that file, viewing the orders, canceling and approving those orders. I used a Linked List to view the orders. Because the products were linked consecutively, so one of the easiest methods was Linked List.

  I used ArrayList to see the is trader's products in the Customer class. I also put the product I wanted to print by researching it into the tmp I created using ArrayList and created descending and ascending rankings from there. The reason I use ArrayList here is that I am doing sorting. I thought ArrayList would be easier in sorting. For example , I used insertion sort to sort the names. I used selection sort to sort the prices and Shell sort to sort the discounts. I use the file trader_users.txt register trader, all of them are registered and I save them in the costumer_user.txt.

3-TEST CASES:

DRIVER:

```
//////////////////////////////////////// DRIVER ////////////////////////////////////////////////

  a.productFile();
```

- In this method , I transferred the information in the csv file to product.txt.

```
//This information of product writed orders.txt , you can check.
c.orderProduct("ABCDEFGH2GTFR123", "SerdilAnil", "Footwear >> Man FootWear", 10000, 200," Comfartable and cheap Footwear "
c.orderProduct("QWQWQWQQWER12345", "Serdil Anil Unlu", "Clock >> Woman Clock", 800, 450, "Gold and silver plated 2-year wa
c.orderProduct("ACUYHTRBN12345RU", "Lionel Messi", "Sport Shoes", 1000, 530, "Dirt-resistant gear crampons", "Shoes monste
```

- In this Customer give the order to orders.txt.

```
System.out.println("******************* I SEARCHED 'Shampoo' TEXT AND PRINT THE TERMINAL ****************");
System.out.println();
System.out.println();
c.searchQuery("Shampoo");
```

- In this method, I print the products according to the words to be searched, if the text I am looking for is available in the name or description, I throw the ArrayList into the tmp I created and return it on the screen.

```
System.out.println();
System.out.println("******************* FILTERED PRICE FROM 1500 TO 2500 AND I PRINT And I PRINT PRODUCTS
System.out.println();
c.filterPrice(1500, 2500);
```

-

```
System.out.println();
System.out.println("********************** I HAVE LISTED 'Shampoo' IN FROM 'A' TO 'Z'(FOR INCLUDING 'Shampoo' IN NAME OR D
System.out.println();
System.out.println();
c.sortNameA_Z();
```
```
System.out.println();
System.out.println("******************* I HAVE LISTED ALL THE PRODUCTS THAT CONTAIN THE NAME 'Shampoo' IN THE DESCRIPTION
c.sortPrice_Dec();
```
```
System.out.println();
System.out.println("*********************** I HAVE LISTED IN INCREASING ORDER OF PRICE :(FOR INCLUDING 'Shampoo'
System.out.println();
c.sortPrice_Inc();
System.out.println();
```
```
System.out.println();
System.out.println();
System.out.println("*********************** I HAVE LISTED 'Shampoo' IN DESCENDING ORDER OF DISCOUNT:(
System.out.println();
c.sortDiscount_Dec();
System.out.println();
```

```
System.out.println("*********************** I HAVE LISTED IN INCREASING ORDER OF DISCOUNT (FOR INCLUDING 'Shampoo'
System.out.println();
System.out.println();
c.sortDiscount_Inc();
System.out.println();
```

I used the methods shown above on products with the word I searched for. I have added a filter or sorted by descending and ascending order.

```
System.out.println();
System.out.println("************************ I SEARCHED 'Sicons' TRADER IN product.txt AND I PRINT THE CARREL PRODUCTS:
System.out.println();
c.showProduct("Sicons");
System.out.println();
```

I print the products owned by the trader we entered in the above method into the terminal.

```java
//////////////////////////////////// TRADER DRİVER /////////////////////////////////////////////////

    //I ADDED PRODUCT TO 'product.txt' YOU CAN CHECK IT TO VERIFY.
    System.out.println();
    System.out.println("ADDED PRODUCT TO 'product.txt'");
    t.addProduct("Green CHAIR Furniture","FURNITURE >> CHAIR >> ",4000,450,"KEY WORD IS WOOD THAT RESISTANT AND CAN EASILY C
    System.out.println();

//I REMOVED THE PRODUCT WITH THE PARAMETER I PLACED IN THE FUNCTION.
System.out.println("REMOVED PRODUCT FORM product.txt:");
t.removeProduct("SRTEH2FF9KEDEFGF");
```

```java
//I EDIT THE NAME AND PRICE OF THE PRODUCT WHOSE ID I ENTERED.
System.out.println("EDIT PRODUCT TO product.txt:");
t.editProduct("SBEEH3QGU7MFYJFY", "Anil Unlu", 1350);
System.out.println();
System.out.println();
//THIS METHODS SHOWS THE ORDERS THAT IN THE 'order.txt'.
System.out.println("*************** SHOWED ORDERS FROM 'order.txt': ***************************** ");
System.out.println();
System.out.println();
t.showOrders();
System.out.println();
System.out.println();
//Here, if I accept the orders in the order.txt file,
//I print a confirm order in the 'situation' section under the orders, and if I do not accept, I print a canceled order.
//IF SITUATION IS 1 ORDER IS CONFIRMED OTHERWISE IF 0 ORDER IS CANCELED.

t.confirmOrder(1,"SJFJK78JKMNSALKU");
t.confirmOrder(0,"ABCDEFGH2GTFR123");
```

```java
//////////////////////////////////// MENU /////////////////////////////////////////////////

    while(!quit){
        System.out.println();
        a.Welcome();
        Scanner input  = new Scanner(System.in);
        selection = input.nextInt();

    try{
        switch(selection){

            case 1:
                a.Register();
                System.out.println();
                System.out.println("Registration process successful good shoppings.");
            break;
```

```java
if(registerId == a.getID() && registerPassword.equals(a.getPassword()) || a.checkSign(registerPassword) == true){

do{
    System.out.println("Login to the system is successful.");
    System.out.println();
    System.out.println("0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0' ");
    System.out.println("1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.");
    System.out.println("2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)");
    System.out.println("3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)");
    System.out.println("4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)");
    System.out.println("5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)");
    System.out.println("6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)");
    System.out.println("7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)");
    System.out.println("8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)");
    System.out.println("9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)");
    System.out.println("10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)");
    select = input.nextInt();
    switch(select){

        case 1:
            System.out.println("PLEASE ENTER THE 'ID' OF THE PRODUCT YOU WANT TO ORDER: ");
            k = input3.nextLine();
            System.out.println("PLEASE ENTER THE 'NAME' OF THE PRODUCT YOU WANT TO ORDER: ");
            l = input3.nextLine();
            System.out.println("PLEASE ENTER THE 'CATEGORY' OF THE PRODUCT YOU WANT TO ORDER: ");
            m = input3.nextLine();
            System.out.println("PLEASE ENTER THE 'PRICE' OF THE PRODUCT YOU WANT TO ORDER: ");
            x = input.nextInt();
            System.out.println("PLEASE ENTER THE 'DISCOUNTED' OF THE PRODUCT YOU WANT TO ORDER: ");
            y = input.nextInt();
            System.out.println("PLEASE ENTER THE 'DESCRIPTION' OF THE PRODUCT YOU WANT TO ORDER: ");
            n = input3.nextLine();
            System.out.println("PLEASE ENTER THE 'TRADER' OF THE PRODUCT YOU WANT TO ORDER: ");
            p = input3.nextLine();

            c.orderProduct(k,l,m, x, y, n, p);

        break;
```

File Edit Selection View Go Run Terminal Help

store.java 2   trader.java   Main.java 1 X   customer.java   Icostumer.java   product.java

Main.java > Main > main(String[])

```java
185
186        case 2:
187            System.out.println("PLEASE WRITE THE WORD YOU WANT TO SEARCH.");
188            z = input3.nextLine();
189            c.searchQuery(z);
190        break;
191
192        case 3:
193
194            c.sortNameA_Z();
195        break;
196
197        case 4:
198            c.sortPrice_Inc();
199        break;
200
201        case 5:
202            c.sortDiscount_Inc();
203        break;
204
205        case 6:
206            c.sortNameZ_A();
207        break;
208
209        case 7:
210            c.sortPrice_Dec();
211        break;
212
213        case 8:
214            c.sortDiscount_Dec();
215        break;
216
217        case 9:
218            System.out.println("ENTER THE NAME OF THE TRADER WHOSE PRODUCT YOU WANT TO SEE.");
219            r = input3.nextLine();
220            c.showProduct(r);
221        break;
222
223        case 10:
224            int upper;
225            int lower;
226            System.out.println("PLEASE ENTER THE LOWER: ");
227            lower = input.nextInt();
228            System.out.println("PLEASE ENTER THE UPPER: ");
```

```java
case 2:
    System.out.println("PLEASE WRITE THE WORD YOU WANT TO SEARCH.");
    z = input3.nextLine();
    c.searchQuery(z);
break;

case 3:

    c.sortNameA_Z();
break;

case 4:
    c.sortPrice_Inc();
break;

case 5:
    c.sortDiscount_Inc();
break;

case 6:
    c.sortNameZ_A();
break;

case 7:
    c.sortPrice_Dec();
break;

case 8:
    c.sortDiscount_Dec();
break;

case 9:
    System.out.println("ENTER THE NAME OF THE TRADER WHOSE PRODUCT YOU WANT TO SEE.");
    r = input3.nextLine();
    c.showProduct(r);
break;
```

```java
case 3:
    a.registerTrader();
    System.out.println();
    System.out.println("Registration process successful good sales.");
break;


case 4:
    String v;
    String w;
    int d;
    String traderId;
    String f;
    String g;
    int h;
    int choice = -1;
    String first,second,fifth,sixth;
    int third,fourth;
    String traderPassWord;
    System.out.println("PLEASE ENTER THE ID ");
    Scanner input4 = new Scanner(System.in);
    traderId = input4.nextLine();
    System.out.println();
    System.out.println("PLEASE ENTER THE PASSWORD ");
    Scanner input5 = new Scanner(System.in);
    traderPassWord = input5.nextLine();
    Scanner input6 = new Scanner(System.in);

do{
    if(a.readFileTrader(traderId) && a.readFileTrader(traderPassWord)){

        System.out.println("1-) IF YOU WANT TO ADD PRODUCTS TO (product.txt) PLEASE ENTER NUMBER '1' ");
        System.out.println("2-) IF YOU WANT TO REMOVE PRODUCTS FROM (product.txt) PLEASE ENTER NUMBER '2' ");
        System.out.println("3-) IF YOU WANT TO EDIT PRODUCTS TO (product.txt) PLEASE ENTER NUMBER '3' ");
        System.out.println("4-) IF YOU WANT TO SEE THE CUSTOMER'S ORDER'S PLEASE ENTER NUMBER '4' ");
        System.out.println("5-)IF YOU WANT TO MEET AND CANCEL THE CUSTOMER'S ORDER'S PLEASE ENTER NUMBER '5' ");
        System.out.println("6-) IF YOU WANT TO BACK TO MAIN MENU:");
        choice = input6.nextInt();
```

```java
                case 10:
                    int upper;
                    int lower;
                    System.out.println("PLEASE ENTER THE LOWER: ");
                    lower = input.nextInt();
                    System.out.println("PLEASE ENTER THE UPPER: ");
                    upper = input.nextInt();
                    c.filterPrice(lower,upper);

                break;

                default:
                    System.out.println("Please enter the invalid value: ");
            }

        }while(select != 0);

        }


        else{
            System.out.println("Plase try again.");
        }
        System.out.println();


break;
```

```java
if(choice == 1){
    System.out.println("PLEASE ENTER THE INFORMATION FOR THE PRODUCT YOU WANT TO ADD, RESPECTİVELY.");
    System.out.println("PLEASE ENTER THE NAME: ");
    first = input5.nextLine();
    System.out.println("PLEASE ENTER THE CATEGORY: ");
    second = input5.nextLine();
    System.out.println("PLEASE ENTER THE PRICE: ");
    third = input6.nextInt();
    System.out.println("PLEASE ENTER THE DISCOUNTED: ");
    fourth = input6.nextInt();
    System.out.println("PLEASE ENTER THE DESCRIPTION: ");
    fifth = input5.nextLine();
    System.out.println("PLEASE ENTER THE TRADER: ");
    sixth = input5.nextLine();

    t.addProduct(first,second,third,fourth,fifth,sixth);
    System.out.println();
    System.out.println("THE PRODUCT YOU WRİTED IS SAVED AT THE END OF THE 'product.txt' FILE.");
}

else if(choice == 2){
    System.out.println("PLEASE ENTER THE ID OF THE PRODUCT YOU WANT TO REMOVE.");
    f = input5.nextLine();
    t.removeProduct(f);
    System.out.println();
    System.out.println("THE PRODUCT YOU ENTERED ID FOR HAS BEEN REMOVED FROM 'product.txt'.");
}

else if(choice == 3){
    System.out.println("ENTER THE ID OF THE PRODUCT YOU WANT TO REPLACE.");
    v = input5.nextLine();
    System.out.println("ENTER THE NAME OF THE PRODUCT YOU WANT TO REPLACE.");
    w = input5.nextLine();
    System.out.println("ENTER THE PRICE OF THE PRODUCT YOU WANT TO REPLACE.");
    d = input6.nextInt();
    t.editProduct(v, w, d);
}
```

```java
                else if(choice == 4){
                    System.out.println("ORDER ARE LISTED BELOW.");
                    System.out.println();
                    t.showOrders();
                }

                else if(choice == 5){
                    System.out.println("ENTER THE ID OF THE PRODUCT YOU WILL ACCEPT OR CANCEL.");
                    g = input5.nextLine();
                    System.out.println();
                    System.out.println("0-) IF YOU WANT CANCEL THE ORDER ,PLEASE ENTER '0'. ");
                    System.out.println("1-) IF YOU CONFIRM ORDER ,PLEASE ENTER '1'. ");
                    h = input6.nextInt();
                    t.confirmOrder(h,g);


                }



            }

        }while(choice != 6);

        break;

        case 0:
            quit = true;

        break;

        default:
            throw new Exception("Invalid Value !!!");


    }
}catch(Exception e){
    System.out.println("ERROR !!! PLEASE ENTER THE VALID NUMBER. ");
}
}

System.out.println("HAVE A GOOD DAY. WE HOPE YOU ENJOYED IT. ");
```

5-Running Command and Results:

```
******************** I SEARCHED 'Shampoo' TEXT AND PRINT THE TERMINAL *****************

[
Id: Id: CBKEJ5PZWGGSBBSC
Name: Brillare Science Dandruff Control Shampoo & Intenso Creme Combo
Category: "[""Beauty and Personal Care >> Combos and Kits >> Brillare Science Combos and Kits >> Brillare Science Dandruff Control Shampoo & Inte...""]"
Price: 450
Discounted: 450
Description: Specifications of Brillare Science Dandruff Control Shampoo & Intenso Creme Combo (Set of) Combo Set Details Combo Set Contents 1 Dandruff Control Shampoo
150ml, 1 Dandruff Control Intenso Creme 125g Ideal For Women, Men Organic No General Traits Professional Care Yes
Trader: Brillare Science
,
Id: Id: SMPDJVMAKKNB69AY
Name: Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo
Category: "[""Beauty and Personal Care >> Hair Care >> Shampoos >> Kerastase Shampoos >> Kerastase Nutritive Bain Satin 1 Complete Nutrit...""]"
Price: 2925
Discounted: 2925
Description: Specifications of Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo (250 ml) Shampoo Traits Hair Type Dry Hair, Normal Hair Applied For Nourishme
nt & Moisturization Ideal For Women, Men Composition Cationic Polymers, Silicone Derivatives General Traits Brand Kerastase Quantity 250 ml Other Traits Smoothes and Pr
otects Hair, Leaves Hair Soft, Supple, Shiny and Manageable, Also Ideal for Slightly Sensitive Hair Model Name Nutritive Bain Satin 1 Complete Nutrition Shampoo Contain
er Type Bottle
Trader: Kerastase
,
Id: Id: BWSEH2A8Q67YCUZP
Name: L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> L Oreal Baby Body Wash >> L Oreal Eversleek Sulfate - Free Smoothing Syste...""]"
Price: 4971
Discounted: 1365
Description: Key Features of L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo Ideal for
Trader: L Oreal
,
Id: Id: CBKEBFJWGWZMXZJJ
Name: Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm
Category: "[""Beauty and Personal Care >> Combos and Kits >> Oxyglow Combos and Kits""]"
Price: 600
Discounted: 504
Description: Buy Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm for Rs.504 online. Oxyglow Golden Glow Pearl Protein Shampoo & Fru
it Massage Cream With Vitamin-E 200gm at best prices with FREE shipping & cash on delivery. Only Genuine Products. 30 Day Replacement Guarantee.
Trader: BigCompany
,
Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany
,
Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons
```

Here, I print the products that contain the word Shampoo in the description or name section to the terminal.

Id: Id: SMPDJVMAKKNB69AY
Name: Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo
Category: "[""Beauty and Personal Care >> Hair Care >> Shampoos >> Kerastase Shampoos >> Kerastase Nutritive Bain Satin 1 Complete Nutrit...""]"
Price: 2925
Discounted: 2925
Description: Specifications of Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo (250 ml) Shampoo Traits Hair Type Dry Hair, Normal Hair Applied For Nourishment & Moisturization Ideal For Women, Men Composition Cationic Polymers, Silicone Derivatives General Traits Brand Kerastase Quantity 250 ml Other Traits Smoothes and Protects Hair, Leaves Hair Soft, Supple, Shiny and Manageable, Also Ideal for Slightly Sensitive Hair Model Name Nutritive Bain Satin 1 Complete Nutrition Shampoo Container Type Bottle
Trader: Kerastase

Id: Id: BWSEH2A8Q67YCUZP
Name: L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> L Oreal Baby Body Wash >> L Oreal Eversleek Sulfate - Free Smoothing Syste...""]"
Price: 4971
Discounted: 1365
Description: Key Features of L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo Ideal for
Trader: L Oreal

Id: Id: CBKEBFJWGWZMXZJJ
Name: Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm
Category: "[""Beauty and Personal Care >> Combos and Kits >> Oxyglow Combos and Kits""]"
Price: 600
Discounted: 504
Description: Buy Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm for Rs.504 online. Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm at best prices with FREE shipping & cash on delivery. Only Genuine Products. 30 Day Replacement Guarantee.
Trader: BigCompany

Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany

Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose Fragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons

Id: Id: PSOEH3ZXRTZJUVXM
Name: Sicons Conditioning Conditoner Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons Conditioning Conditoner Dog Shampoo (200 ml)""]"
Price: 110
Discounted: 100
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quantity 200 ml Model Number SH.DF-02 Type Conditioning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons

Id: Id: BWSEH2A8YSFSAZ3Z
Name: TRESemme Naturals Vibrantly Smooth Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> TRESemme Baby Body Wash >> TRESemme Naturals Vibrantly Smooth Shampoo (591)""]"
Price: 2393
Discounted: 2063
Description: Key Features of TRESemme Naturals Vibrantly Smooth Shampoo Ideal for
Trader: TRESemme

```
******************** FILTERED PRICE FROM 1500 TO 2500 AND I PRINT And I PRINT PRODUCTS THAT ARE IN THIS PRICE RANGE AND CONTAIN THE WORD 'Shampoo' TO THE TERMINAL.******
*********


Id: Id: BWSEH2A8YSFSAZ3Z
Name: TRESemme Naturals Vibrantly Smooth Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> TRESemme Baby Body Wash >> TRESemme Naturals Vibrantly Smooth Shampoo (591)""]"
Price: 2393
Discounted: 2063
Description: Key Features of TRESemme Naturals Vibrantly Smooth Shampoo Ideal for
Trader: TRESemme
```

I filtered product which have Shampoo its description and name parts.

```
********************* I HAVE LISTED 'Shampoo' IN FROM 'A' TO 'Z'(FOR INCLUDING 'Shampoo' IN NAME OR DESCRIPTION)*************************

[
Id: Id: CBKEJ5PZWGGSBBSC
Name: Brillare Science Dandruff Control Shampoo & Intenso Creme Combo
Category: "[""Beauty and Personal Care >> Combos and Kits >> Brillare Science Combos and Kits >> Brillare Science Dandruff Control Shampoo & Inte...""]"
Price: 450
Discounted: 450
Description: Specifications of Brillare Science Dandruff Control Shampoo & Intenso Creme Combo (Set of) Combo Set Details Combo Set Contents 1 Dandruff Control Shampoo
150ml, 1 Dandruff Control Intenso Creme 125g Ideal For Women, Men Organic No General Traits Professional Care Yes
Trader: Brillare Science
,
Id: Id: SMPDJVMAKKNB69AY
Name: Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo
Category: "[""Beauty and Personal Care >> Hair Care >> Shampoos >> Kerastase Shampoos >> Kerastase Nutritive Bain Satin 1 Complete Nutrit...""]"
Price: 2925
Discounted: 2925
Description: Specifications of Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo (250 ml) Shampoo Traits Hair Type Dry Hair, Normal Hair Applied For Nourishme
nt & Moisturization Ideal For Women, Men Composition Cationic Polymers, Silicone Derivatives General Traits Brand Kerastase Quantity 250 ml Other Traits Smoothes and Pr
otects Hair, Leaves Hair Soft, Supple, Shiny and Manageable, Also Ideal for Slightly Sensitive Hair Model Name Nutritive Bain Satin 1 Complete Nutrition Shampoo Contain
er Type Bottle
Trader: Kerastase
,
Id: Id: BWSEH2A8Q67YCUZP
Name: L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> L Oreal Baby Body Wash >> L Oreal Eversleek Sulfate - Free Smoothing Syste...""]"
Price: 4971
Discounted: 1365
Description: Key Features of L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo Ideal for
Trader: L Oreal
,
Id: Id: CBKEBFJWGWZMXZJJ
Name: Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm
Category: "[""Beauty and Personal Care >> Combos and Kits >> Oxyglow Combos and Kits""]"
Price: 600
Discounted: 504
Description: Buy Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm for Rs.504 online. Oxyglow Golden Glow Pearl Protein Shampoo & Fru
it Massage Cream With Vitamin-E 200gm at best prices with FREE shipping & cash on delivery. Only Genuine Products. 30 Day Replacement Guarantee.
Trader: BigCompany
,
Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany
,
Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons
```

I sorted Descending and İncreasing order to this product which have Shampoo
its description and name parts.

```
*********************** I HAVE LISTED 'Shampoo' IN DESCENDING ORDER OF DISCOUNT:(FOR INCLUDING 'Shampoo' IN NAME OR DESCRIPTION) ******************************


[
Id: Id: SMPDJVMAKKNB69AY
Name: Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo
Category: "[""Beauty and Personal Care >> Hair Care >> Shampoos >> Kerastase Shampoos >> Kerastase Nutritive Bain Satin 1 Complete Nutrit...""]"
Price: 2925
Discounted: 2925
Description: Specifications of Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo (250 ml) Shampoo Traits Hair Type Dry Hair, Normal Hair Applied For Nourishme
nt & Moisturization Ideal For Women, Men Composition Cationic Polymers, Silicone Derivatives General Traits Brand Kerastase Quantity 250 ml Other Traits Smoothes and Pr
otects Hair, Leaves Hair Soft, Supple, Shiny and Manageable, Also Ideal for Slightly Sensitive Hair Model Name Nutritive Bain Satin 1 Complete Nutrition Shampoo Contain
er Type Bottle
Trader: Kerastase
,
Id: Id: BWSEH2A8YSFSAZ3Z
Name: TRESemme Naturals Vibrantly Smooth Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> TRESemme Baby Body Wash >> TRESemme Naturals Vibrantly Smooth Shampoo (591)""]"
Price: 2393
Discounted: 2063
Description: Key Features of TRESemme Naturals Vibrantly Smooth Shampoo Ideal for
Trader: TRESemme
,
Id: Id: BWSEH2A8Q67YCUZP
Name: L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> L Oreal Baby Body Wash >> L Oreal Eversleek Sulfate - Free Smoothing Syste...""]"
Price: 4971
Discounted: 1365
Description: Key Features of L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo Ideal for
Trader: L Oreal
,
Id: Id: CBKEBFJWGWZMXZJJ
Name: Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm
Category: "[""Beauty and Personal Care >> Combos and Kits >> Oxyglow Combos and Kits""]"
Price: 600
Discounted: 504
Description: Buy Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm for Rs.504 online. Oxyglow Golden Glow Pearl Protein Shampoo & Fru
it Massage Cream With Vitamin-E 200gm at best prices with FREE shipping & cash on delivery. Only Genuine Products. 30 Day Replacement Guarantee.
Trader: BigCompany
,
Id: Id: CBKEJ5PZWGGSBBSC
Name: Brillare Science Dandruff Control Shampoo & Intenso Creme Combo
Category: "[""Beauty and Personal Care >> Combos and Kits >> Brillare Science Combos and Kits >> Brillare Science Dandruff Control Shampoo & Inte...""]"
Price: 450
Discounted: 450
Description: Specifications of Brillare Science Dandruff Control Shampoo & Intenso Creme Combo (Set of) Combo Set Details Combo Set Contents 1 Dandruff Control Shampoo
150ml, 1 Dandruff Control Intenso Creme 125g Ideal For Women, Men Organic No General Traits Professional Care Yes
Trader: Brillare Science
,
Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany
,
Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
```

```
*********************** I HAVE LISTED IN INCREASING ORDER OF PRICE :(FOR INCLUDING 'Shampoo' IN NAME OR DESCRIPTION:)*********************************

Id: Id: PSOEH3ZXRTZJUVXM
Name: Sicons Conditioning Conditoner Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons Conditioning Conditoner Dog Shampoo (200 ml)""]"
Price: 110
Discounted: 100
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quantity 200 ml Model Number SH.DF-02 Type Conditio
ning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons

Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons

Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany

Id: Id: CBKEJ5PZWGGSBBSC
Name: Brillare Science Dandruff Control Shampoo & Intenso Creme Combo
Category: "[""Beauty and Personal Care >> Combos and Kits >> Brillare Science Combos and Kits >> Brillare Science Dandruff Control Shampoo & Inte...""]"
Price: 450
Discounted: 450
Description: Specifications of Brillare Science Dandruff Control Shampoo & Intenso Creme Combo (Set of) Combo Set Details Combo Set Contents 1 Dandruff Control Shampoo
150ml, 1 Dandruff Control Intenso Creme 125g Ideal For Women, Men Organic No General Traits Professional Care Yes
Trader: Brillare Science

Id: Id: CBKEBFJWGWZMXZJJ
Name: Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm
Category: "[""Beauty and Personal Care >> Combos and Kits >> Oxyglow Combos and Kits""]"
Price: 600
Discounted: 504
Description: Buy Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm for Rs.504 online. Oxyglow Golden Glow Pearl Protein Shampoo & Fru
it Massage Cream With Vitamin-E 200gm at best prices with FREE shipping & cash on delivery. Only Genuine Products. 30 Day Replacement Guarantee.
Trader: BigCompany

Id: Id: BWSEH2A8YSFSAZ3Z
Name: TRESemme Naturals Vibrantly Smooth Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> TRESemme Baby Body Wash >> TRESemme Naturals Vibrantly Smooth Shampoo (591)""]"
Price: 2393
Discounted: 2063
Description: Key Features of TRESemme Naturals Vibrantly Smooth Shampoo Ideal for
Trader: TRESemme

Id: Id: SMPDJVMAKKNB69AY
Name: Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo
Category: "[""Beauty and Personal Care >> Hair Care >> Shampoos >> Kerastase Shampoos >> Kerastase Nutritive Bain Satin 1 Complete Nutrit...""]"
Price: 2925
Discounted: 2925
Description: Specifications of Kerastase Nutritive Bain Satin 1 Complete Nutrition Shampoo (250 ml) Shampoo Traits Hair Type Dry Hair, Normal Hair Applied For Nourishme
```

```
************************ I HAVE LISTED IN INCREASING ORDER OF DISCOUNT (FOR INCLUDING 'Shampoo' IN NAME OR DESCRIPTION:)*******************************************


[
Id: Id: PSOEH3ZXRTZJUVXM
Name: Sicons Conditioning Conditoner Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons Conditioning Conditoner Dog Shampoo (200 ml)""]"
Price: 110
Discounted: 100
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quantity 200 ml Model Number SH.DF-02 Type Conditio
ning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons
,
Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons
,
Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany
,
Id: Id: CBKEJ5PZWGGSBBSC
Name: Brillare Science Dandruff Control Shampoo & Intenso Creme Combo
Category: "[""Beauty and Personal Care >> Combos and Kits >> Brillare Science Combos and Kits >> Brillare Science Dandruff Control Shampoo & Inte...""]"
Price: 450
Discounted: 450
Description: Specifications of Brillare Science Dandruff Control Shampoo & Intenso Creme Combo (Set of) Combo Set Details Combo Set Contents 1 Dandruff Control Shampoo
150ml, 1 Dandruff Control Intenso Creme 125g Ideal For Women, Men Organic No General Traits Professional Care Yes
Trader: Brillare Science
,
Id: Id: CBKEBFJWGWZMXZJJ
Name: Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm
Category: "[""Beauty and Personal Care >> Combos and Kits >> Oxyglow Combos and Kits""]"
Price: 600
Discounted: 504
Description: Buy Oxyglow Golden Glow Pearl Protein Shampoo & Fruit Massage Cream With Vitamin-E 200gm for Rs.504 online. Oxyglow Golden Glow Pearl Protein Shampoo & Fru
it Massage Cream With Vitamin-E 200gm at best prices with FREE shipping & cash on delivery. Only Genuine Products. 30 Day Replacement Guarantee.
Trader: BigCompany
,
Id: Id: BWSEH2A8Q67YCUZP
Name: L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> L Oreal Baby Body Wash >> L Oreal Eversleek Sulfate - Free Smoothing Syste...""]"
Price: 4971
Discounted: 1365
Description: Key Features of L Oreal Eversleek Sulfate - Free Smoothing System Intense Smoothing Shampoo Ideal for
Trader: L Oreal
,
Id: Id: BWSEH2A8YSFSAZ3Z
Name: TRESemme Naturals Vibrantly Smooth Shampoo
Category: "[""Baby Care >> Baby Bath & Skin >> Baby Body Wash >> TRESemme Baby Body Wash >> TRESemme Naturals Vibrantly Smooth Shampoo (591)""]"
Price: 2393
Discounted: 2063
```

```
*************************** I SEARCHED 'Sicons' TRADER IN product.txt AND I PRINT THE CARREL PRODUCTS: ***************************************

Trader: Sicons

Id: TSHEHBHSKBJWHFNF
Name: dongli Printed Boy's Round Neck T-Shirt
Category: "[""Clothing >> Kids' Clothing >> Boys Wear >> Polos & T-Shirts >> dongli Polos & T-Shirts >> dongli Printed Boy's Round Neck T-Shirt (Pack of 4)""]"
Price: 2400
Discounted: 1039
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quantity 200 ml Model Number SH.DF-02 Type Conditio
ning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons

Id: TSHEHBHSKBJWHFNF
Name: dongli Printed Boy's Round Neck T-Shirt
Category: "[""Clothing >> Kids' Clothing >> Boys Wear >> Polos & T-Shirts >> dongli Polos & T-Shirts >> dongli Printed Boy's Round Neck T-Shirt (Pack of 4)""]"
Price: 2400
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons Conditioning Conditoner Dog Shampoo (200 ml)""]"
Price: 110
Discounted: 100
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quantity 200 ml Model Number SH.DF-02 Type Conditio
ning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons

Id: TSHEHBHSKBJWHFNF
Name: Sicons Conditioning Conditoner Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons Conditioning Conditoner Dog Shampoo (200 ml)""]"
Price: 110
Discounted: 100
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quantity 200 ml Model Number SH.DF-02 Type Conditio
ning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons

Trader: Sicons

Id: PWTEB7H2E4KCYUE3
Name: Eternal Gandhi Super Series Crystal Paper Weights  with Silver Finish
Category: "[""Eternal Gandhi Super Series Crystal Paper Weight...""]"
Price: 430
Discounted: 430
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons

Id: PWTEB7H2E4KCYUE3
Name: Eternal Gandhi Super Series Crystal Paper Weights  with Silver Finish
Category: "[""Eternal Gandhi Super Series Crystal Paper Weight...""]"
Price: 430
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]"
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 500 ml Model Number SH.DF-14 Type All Purpose F
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons
```

```
ADDED PRODUCT TO 'product.txt'

THE PRODUCT IS ADDED, YOU CAN SEARCH THIS PRODUCT IN FILE BY THIS ID: U31M4L40I0GE2C7V

REMOVED PRODUCT FORM product.txt:
EDIT PRODUCT TO product.txt:


*************** SHOWED ORDERS FROM 'order.txt': ****************************


[Id: ABCDEFGH2GTFR123
, Name: SerdilAnil
, Category: Footwear >> Man FootWear
, Price: 10000
, Discounted: 200
, Description:  Comfartable and cheap Footwear
, Trader: Serdil Anil Unlu
, Situation: CANCELLED ORDER

,
, Id: QWQWQWQQWER12345
, Name: Serdil Anil Unlu
, Category: Clock >> Woman Clock
, Price: 800
, Discounted: 450
, Description: Gold and silver plated 2-year warranty watches.
, Trader: ClockWoman
, Situation: NOT CHECKED

,
, Id: ABCDEFGH2GTFR123
, Name: SerdilAnil
, Category: Footwear >> Man FootWear
, Price: 10000
, Discounted: 200
, Description:  Comfartable and cheap Footwear
, Trader: Serdil Anil Unlu
, Situation: CANCELLED ORDER

,
```

```
******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
```

```
, Price: 800
, Discounted: 450
, Description: Gold and silver plated 2-year warranty watches.
, Trader: ClockWoman
, Situation: NOT CHECKED
,
, Id: ACUYHTRBN12345RU
, Name: Lionel Messi
, Category: Sport Shoes
, Price: 1000
, Discounted: 530
, Description: Dirt-resistant gear crampons
, Trader: Shoes monster
, Situation: NOT CHECKED
]


******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
1
Enter Customer ID:
12312367
Enter Customer Password:
jackob

Registration process successful good shoppings.


******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
2
Please enter the ID:
12312367

Please enter the password:
jackob
Login to the system is successful.

0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
```

```
******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
1
Enter Customer ID:
12312367
Enter Customer Password:
jackob

Registration process successful good shoppings.


******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
2
Please enter the ID:
12312367

Please enter the password:
jackob
Login to the system is successful.

0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
```

anil@anil-VirtualBox: ~/Desktop/HMW6

```
12312367
Enter Customer Password:
jackob


Registration process successful good shoppings.



******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
2
Please enter the ID:
12312367

Please enter the password:
jackob
Login to the system is successful.

0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
1
PLEASE ENTER THE 'ID' OF THE PRODUCT YOU WANT TO ORDER:
QWERTYUIOP12345L
PLEASE ENTER THE 'NAME' OF THE PRODUCT YOU WANT TO ORDER:
GREENSKY
PLEASE ENTER THE 'CATEGORY' OF THE PRODUCT YOU WANT TO ORDER:
FURNITURE
PLEASE ENTER THE 'PRICE' OF THE PRODUCT YOU WANT TO ORDER:
23241
PLEASE ENTER THE 'DISCOUNTED' OF THE PRODUCT YOU WANT TO ORDER:
125
PLEASE ENTER THE 'DESCRIPTION' OF THE PRODUCT YOU WANT TO ORDER:
HIGH RESISTANCE GOOD- LOOKING
PLEASE ENTER THE 'TRADER' OF THE PRODUCT YOU WANT TO ORDER:
Serdil
Login to the system is successful.

0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
```

```
******* WELCOME TO THE E-SHOPPING: *********
*** PLEASE SELECT THE NUMBER FOR MENU: ***
 1)-Press 1 to If you are not a registered Customer:
 2)-Press 2 If you are already a registered customer:
 3)-Press 3 If you are not a registered trader:
 4)-Press 4 If you are already a registered trader:
 0)-Press 0 If you want to exit the system:
2
Please enter the ID:
12312367

Please enter the password:
jackob
Login to the system is successful.

0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
1
PLEASE ENTER THE 'ID' OF THE PRODUCT YOU WANT TO ORDER:
QWERTYUIOP12345L
PLEASE ENTER THE 'NAME' OF THE PRODUCT YOU WANT TO ORDER:
GREENSKY
PLEASE ENTER THE 'CATEGORY' OF THE PRODUCT YOU WANT TO ORDER:
FURNITURE
PLEASE ENTER THE 'PRICE' OF THE PRODUCT YOU WANT TO ORDER:
23241
PLEASE ENTER THE 'DISCOUNTED' OF THE PRODUCT YOU WANT TO ORDER:
125
PLEASE ENTER THE 'DESCRIPTION' OF THE PRODUCT YOU WANT TO ORDER:
HIGH RESISTANCE GOOD- LOOKING
PLEASE ENTER THE 'TRADER' OF THE PRODUCT YOU WANT TO ORDER:
Serdil
Login to the system is successful.
```

```
1
2
3
4 Id: QWERTYUIOP12345L
5 Name: GREENSKY
6 Category: FURNITURE
7 Price: 23241
8 Discounted: 125
9 Description: HIGH RESISTANCE GOOD- LOOKING
0 Trader: Serdil
1 Situation: NOT CHECKED
```

This information in orders.txt. And I can order to order.txt by menü and driver function in customer part.

```
0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
2
PLEASE WRITE THE WORD YOU WANT TO SEARCH.
Bootle
```

```
0-) IF YOU WANT TO BACK TO MAIN MENU ,PLEASE PRESS '0'
1-) IF YOU WANT TO ORDER, PLEASE PRESS '1'.
2-) IF YOU WANT TO SEARCH AND QUERY THE TEXT BY THEIR DECRASE NAMES, PLEASE FIRST PRESS '2'.)
3-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM A TO Z ,PLEASE ENTER NUMBER '3'.)
4-) IF YOU SEARCH TEXT ,FOR THE INCREASING PRICE ORDER ,PLEASE ENTER NUMBER '4'.)
5-) IF YOU SEARCH TEXT ,FOR THE INCREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '5'.)
6-) IF YOU SEARCH TEXT ,FOR SORTING NAME FROM Z TO A ,PLEASE ENTER NUMBER '6'.)
7-) IF YOU SEARCH TEXT ,FOR THE DECREASING PRICE ORDER ,PLEASE ENTER NUMBER '7'.)
8-) IF YOU SEARCH TEXT ,FOR THE DECREASING DISCOUNT ORDER ,PLEASE ENTER NUMBER '8'.)
9-) IF YOU DISPLAY PRODUCTS OF TRADER ,PLEASE PRESS '9'.)
10-) IF YOU FILTER THE PRICE ABOUT YOU SEARCHED TEXT)
5
[
Id: Id: PSOEH3ZXRTZJUVXM
Name: Sicons Conditioning Conditoner Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons Conditioning Conditoner Dog Shampoo (200 
Price: 110
Discounted: 100
Description: Specifications of Sicons Conditioning Conditoner Dog Shampoo (200 ml) General Pet Type Dog Brand Sicons Quant
ning Fragrance Conditoner Form Factor Gel In the Box Sales Package Shampoo Sicons Dog Fashion Conditioner Aloe Rinse
Trader: Sicons
,
Id: Id: PSOEH3ZYDMSYARJ5
Name: Sicons All Purpose Arnica Dog Shampoo
Category: "[""Pet Supplies >> Grooming >> Skin & Coat Care >> Shampoo >> Sicons All Purpose Arnica Dog Shampoo (500 ml)""]
Price: 220
Discounted: 210
Description: Specifications of Sicons All Purpose Arnica Dog Shampoo (500 ml) General Pet Type Dog Brand Sicons Quantity 5
ragrance Arnica Form Factor Liquid In the Box Sales Package Shampoo Sicons Dog Fashion Arnica
Trader: Sicons
,
Id: Id: CAGE6TUDNZCKHMGQ
Name: Park Avenue Oily Beer Shampoo Combo Set
Category: "[""Beauty and Personal Care >> Fragrances >> Deodorants >> Combos >> Park Avenue Combos""]"
Price: 320
Discounted: 310
Description: Flipkart.com
Trader: BigCompany
,
```

```
, Discounted: 530                                      18 Password : 3W9J3R
, Description: Dirt-resistant gear crampons            19 Id : 66188741
, Trader: Shoes monster                                20 Name : Ladela
, Situation: NOT CHECKED                               21 Password : CIIK7Z
]                                                      22 Id : 24895466
                                                       23 Name : Carrel
                                                       24 Password : GIDJMK
                                                       25 Id : 22450738
****** WELCOME TO THE E-SHOPPING: *********            26 Name : Freelance
*** PLEASE SELECT THE NUMBER FOR MENU: ***             27 Password : 55RSOM
 1)-Press 1 to If you are not a registered Customer:   28 Id : 42130029
 2)-Press 2 If you are already a registered customer:  29 Name : Style Foot
 3)-Press 3 If you are not a registered trader:        30 Password : IXLRIP
 4)-Press 4 If you are already a registered trader:    31 Id : 68798499
 0)-Press 0 If you want to exit the system:            32 Name : dongli
4                                                      33 Password : QNX7PE
PLEASE ENTER THE ID                                    34 Id : 18937218
66188741                                               35 Name : SWAGGA
                                                       36 Password : W0WEB4
PLEASE ENTER THE PASSWORD                              37 Id : 50703762
CIIK7Z                                                 38 Name : Kennel
1-) IF YOU WANT TO ADD PRODUCTS TO (product.txt) PLEASE ENTER NUMBER  39 Password : UYMPL1
2-) IF YOU WANT TO REMOVE PRODUCTS FROM (product.txt) PLEASE ENTER NU 40 Id : 02530860
3-) IF YOU WANT TO EDIT PRODUCTS TO (product.txt) PLEASE ENTER NUMBE  41 Name : Bengal Blooms
4-) IF YOU WANT TO SEE THE CUSTOMER'S ORDER'S PLEASE ENTER NUMBER '4  42 Password : EVQ53L
5-)IF YOU WANT TO MEET AND CANCEL THE CUSTOMER'S ORDER'S PLEASE ENTE  43 Id : 28200721
6-) IF YOU WANT TO BACK TO MAIN MENU:                  44 Name : Indcrown
                                                       45 Password : 3MTW8B
```

The right side is trader_users.txt and these are already trader register. If you are not register in system as a trader you can register.

```
Id: QWQWQWQQWER12345
Name: Serdil Anil Unlu
Category: Clock >> Woman Clock
Price: 800
Discounted: 450
Description: Gold and silver plated 2-year warranty watches.
Trader: ClockWoman
Situation: NOT CHECKED

Id: ABCDEFGH2GTFR123
Name: SerdilAnil
Category: Footwear >> Man FootWear
Price: 10000
Discounted: 200
Description:  Comfartable and cheap Footwear
Trader: Serdil Anil Unlu
Situation: CANCELLED ORDER

Id: ACUYHTRBN12345RU
Name: Lionel Messi
Category: Sport Shoes
Price: 1000
Discounted: 530
Description: Dirt-resistant gear crampons
Trader: Shoes monster
Situation: NOT CHECKED
```

```
1 Id: 12345678
2 Password: anil
3 Id: 11111111
4 Password: serdil
5 Id: 12121212
6 Password: caner
7 Id: 23232323
8 Password: Martin
9 Id: 45454545
0 Password: Suzane
1
2 Id: 34543454
3 Password: Filiph
4
5 Id: 12312345
6 Password: serdil
7 Id: 12312367
8 Password: jackob
```

The screen printout above is the registration information of the customers and when they are registered, the information they enter directly into this file is written. The name of the file is costumer_users.txt.