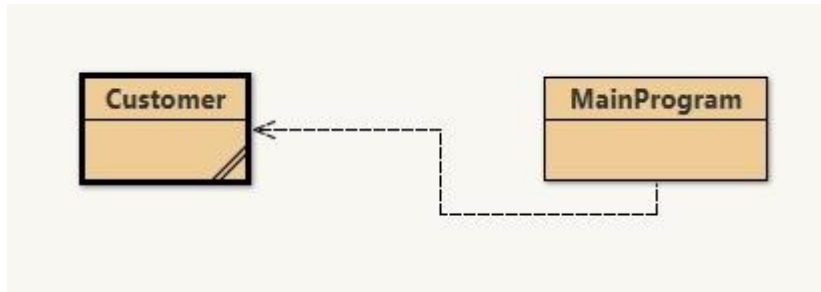


Shop Program in Java



```
public class Customer
{
    //data

    int indexNo;
    String name;
    boolean takeHome;
    double costOfShopping;

    //methods

    void displayBill()
    {
        if (takeHome==true)
            costOfShopping = costOfShopping + 1;
        System.out.println (indexNo + " " + name + " " + costOfShopping);
    }
}
```

```
}
```

```
import java.util.Scanner;
```

```
public class MainProgram
```

```
{
```

```
    static final int ELTS = 3;
```

```
    static Scanner scanNum = new Scanner(System.in);
```

```
    static Scanner scanStr = new Scanner(System.in);
```

```
    static String[] namesOfItems = new String[ELTS];
```

```
    static double[] pricesOfItems = new double[ELTS];
```

```
    static int[] shoppingList = new int[ELTS];
```

```
    public static void main (String[] args)
```

```
    {
```

```
        int option = -1;
```

```
        do
```

```
        {
```

```
            System.out.print ("\f");
```

```
            menu();
```

```
            option = scanNum.nextInt();
```

```
            String namIt;
```

```
switch (option)
{
    case 1: enterData();
            break;
    case 2: listItems();
            break;
    case 3: System.out.println("Please enter name of item.");
            namIt = scanStr.nextLine();
            searchPrice(namIt);
            break;
    case 4: System.out.println("Please enter name of item.");
            namIt = scanStr.nextLine();
            modifyPrice (namIt);
            break;
    case 5: sortByName();
            break;
    case 6: shoppingList();
}
} while (option != 7);
}
```

```
public static void enterData()
{
    for (int i=0; i<ELTS; i++)
    {
```

```

        System.out.print ("Enter name of item: ");
        namesOfItems[i] = scanStr.nextLine();
        System.out.print ("Enter price of item: ");
        pricesOfItems[i] = scanNum.nextDouble();
    }
}

public static void listItems()
{
    for (int i=0; i<ELTS; i++)
    {
        System.out.println (namesOfItems[i] + " " + pricesOfItems[i]);
    }
    pressEnter();
}

public static void searchPrice (String namItem)
{
    int i=0;
    boolean found = false;

    while (!found && i<ELTS)
    {
        if (namesOfItems[i].equals(namItem))
        {

```

```
        System.out.println (namItem + " has price " + pricesOfItems[i]);
        found = true;
    }
    else i++;
}
if (!found)
    System.out.println ("Sorry, item was not found");

pressEnter();
}
```

```
public static void modifyPrice (String namItem)
{
    int i=0;
    boolean found = false;

    while (!found && i<ELTS)
    {
        if (namesOfItems[i].equals(namItem))
        {
            System.out.println ("Please enter new price of " + namItem);
            pricesOfItems[i] = scanNum.nextDouble();
            System.out.println ("Item's price was modified");
            found = true;
        }
    }
}
```

```
        i++;
    }
    if (!found)
        System.out.println ("Sorry, item was not found");

    pressEnter();
}

public static void sortByName()
{
    boolean sorted = false;
    String temps;
    double tempd;
    do
    {
        for (int i=0; i<=ELTS-2; i++)
        {
            sorted = true;
            if (namesOfItems[i].compareTo(namesOfItems[i+1]) > 0)
            {
                temps = namesOfItems[i];
                namesOfItems[i] = namesOfItems[i+1];
                namesOfItems[i+1] = temps;
                tempd = pricesOfItems[i];
                pricesOfItems[i] = pricesOfItems[i+1];
            }
        }
    }
}
```

```

        pricesOfItems[i+1] = tempd;
        sorted = false;
    }
}
} while (sorted == false);
System.out.println ("Sort is ready");

pressEnter();
}

public static void shoppingList ()
{
    //create an object of type Customer
    Customer cust = new Customer();
    System.out.println ("Enter Index Number of Customer");
    cust.indexNo = scanNum.nextInt();
    System.out.println ("Enter Name of Customer");
    cust.name = scanStr.nextLine();
    System.out.print ("Does the customer want to receive items at home? (y/n)");
    String yesNo = scanStr.nextLine();
    if (yesNo.equals("yes"))
        cust.takeHome = true;
        else cust.takeHome = false;
    double totalPrice = 0;
    for (int i=0; i<=ELTS-1; i++)

```

```
{
    System.out.println (namesOfItems[i] + " How many of it?");
    shoppingList[i] = scanNum.nextInt();
    totalPrice = totalPrice + shoppingList[i]*pricesOfItems[i];
}

if (cust.takeHome == true)
    totalPrice = totalPrice + 2;

cust.costOfShopping = totalPrice;

//Display shopping list

System.out.println ("\f");

for (int i=0; i<=ELTS-1; i++)
{
    System.out.println (namesOfItems[i] + " You ordered " + shoppingList[i]);
}
System.out.println ();
System.out.println ("Total price is " + cust.costOfShopping);

pressEnter();
}
```



```
public static void menu()
{
    System.out.println ("\f"); //clear the screen
    System.out.println ("MENU");
    System.out.println ("1: Enter data");
    System.out.println ("2: List all items");
    System.out.println ("3: Search for a price");
    System.out.println ("4: Modify a price");
    System.out.println ("5: Sort the items by name");
    System.out.println ("6: Make a shopping list");
    System.out.println ("7: Quit program");
    System.out.println ("Enter your choice");
}
```

```
public static void pressEnter()
{
    System.out.println ("Press enter to continue");
    String press = scanStr.nextLine();
}
}
```