

HESHAN SANDARUWAN

GDSE-69

2301691035

```
import java.util.*;
public class Example{
    static String usrName = "hesh";
    static String pass="1234";
    static String[][] suppliers = new String[0][2];

    static String[] suplierHeaders = {"#", "ID", "Name"};
    static String[][] categories = new String[1][2];
    static String[] categrareHeaders={"@", "Name", "ID"};
    static String[][] items = new String[1][6];
    static String[] itemHeaders = {"", "code", "SID", "Cat", "Desc", "price", "qty"};
    static String[] newheders = {"code", "SID", "Cat", "Desc", "price", "qty"};

    private final static void clearConsole(){
    final String os = System.getProperty("os.name");
    try {
    if (os.equals("Linux")) {
    System.out.print("\033\143");
    } else if (os.equals("Windows")) {
    new ProcessBuilder("cmd", "/c", "cls").inheritIO().start().waitFor();
    } else {
    System.out.print("\033[H\033[2J");
    System.out.flush();
    }
    } catch (final Exception e) {
    System.err.println(e.getMessage());
    }
    }

    private static int isFull(String[][] array){

    for (int i = 0; i < array.length; i++) {

        if (array[i][0]==null) {
            return i;
        }

    }
    return -1;
    }

    public static String[][] grow(String[][] oldArray,int ar){

    int newArrayCapacity = oldArray.length + 1 ;
```

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```
String[][] newArray = new String[newArrayCapacity][ar];

for (int i = 0; i < oldArray.length; i++) {
    newArray[i] = Arrays.copyOf(oldArray[i], oldArray[i].length);
}

return newArray;
}

public static int search(String[][] array ,String value ){
    for (int i = 0; i < array.length; i++) {
        if (array[i][0].equals(value)) {
            return i;
        }
    }
    return -1;
}

public static String[][] deleteRow(String[][] array, int rowToDelete) {
    String[][] newArray = new String[array.length - 1][array[0].length];
    int newRow = 0;

    for (int i = 0; i < array.length; i++) {
        if (i != rowToDelete) {
            newArray[newRow] = array[i];
            newRow++;
        }
    }

    return newArray;
}

////////////////////////////////////
public static void generateTable(String[] headers, String[][] data) {

    int rows = data.length;
    int columns = data[0].length + 1;

    int[] columnWidths = new int[columns];

    for (String[] row : data) {
        for (int j = 0; j < row.length; j++) {
            int length = row[j].length();
```

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```
        if (length > columnWidths[j + 1]) {  
            columnWidths[j + 1] = length;  
        }  
    }  
}
```

```
columnWidths[0] = String.valueOf(rows).length() + 2;
```

```
printRow(headers, columnWidths);
```

```
for (int i = 0; i < rows; i++) {  
    String[] rowData = new String[columnWidths];  
    rowData[0] = String.valueOf(i + 1);  
    System.arraycopy(data[i], 0, rowData, 1, data[i].length);  
  
    printRow(rowData, columnWidths);  
  
    if (i == rows - 1) {  
        printBottomBorder(columnWidths);  
    }  
}
```

```
public static void printRow(String[] row, int[] columnWidths) {  
  
    int columns = row.length;  
  
    for (int j = 0; j < columns; j++) {  
        System.out.print("+ " + repeat("-", columnWidths[j] + 2));  
    }  
    System.out.println("+");  
  
    for (int j = 0; j < columns; j++) {  
        System.out.printf("| %- " + columnWidths[j] + "s ", row[j]);  
    }  
    System.out.println("|");  
}
```

```
public static void printBottomBorder(int[] columnWidths) {  
  
    int columns = columnWidths.length;  
  
    for (int j = 0; j < columns; j++) {
```

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```
        System.out.print("+" + repeat("-", columnWidths[j] + 2));
    }
    System.out.println("+");
}

public static String repeat(String str, int times) {

    return new String(new char[times]).replace("\0", str);
}

////////////////////////////////////
public static void searchSupplier() {

clearConsole();
System.out.println( "+-----+");
System.out.println( "|          SEARCH SUPPLIER          |");
System.out.println( "+-----+");
Scanner scanner = new Scanner(System.in);
boolean wantFind = true ;
while (wantFind) {
    boolean tryAgain = true;
    while (tryAgain) {
        System.out.print("\nsupplier ID :");
        String supplierID = scanner.nextLine();
        int index = search(suppliers, supplierID);
        if (index == -1) {
            System.out.print("ID not found . try again(y/n)");
            char input = scanner.nextLine().toLowerCase().charAt(0);
            if (input == 'n') {
                tryAgain= false;
                wantFind=false;
            }
        }
        }else{

            System.out.print("Supplier Name :"+suppliers[index][1]+ "\n" );
            System.out.print("added successfully! Do you add another find(y/n)?");
            char input = scanner.nextLine().toLowerCase().charAt(0);
            if (input == 'n') {
                tryAgain= false;
                wantFind = false;
            }else{

                clearConsole();
                System.out.println( "+-----+");
                System.out.println( "|          SEARCH SUPPLIER          |");

                System.out.println( "+-----+");
            }
        }
    }
}
```

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```
    }

}
clearConsole();
supplierManage();
}

public static void viewSuppliers() {
    clearConsole();
    System.out.println( "+-----+");
    System.out.println( "|          VIEW SUPPLIERS          |");
    System.out.println( "+-----+");

    generateTable(supplierHeaders, suppliers);
    Scanner scanner = new Scanner(System.in);
    boolean key = true;
    while (key) {
        System.out.print("Do you want to go supplier manage page(Y/N)?");
        char press = scanner.nextLine().toLowerCase().charAt(0);
        if ( press == 'y') {
            key= false;
            clearConsole();
            supplierManage();

        }
    }
}

}

public static void deleteSupplier() {
    clearConsole();
    System.out.println( "+-----+");
    System.out.println( "|          DELETE SUPPLIER          |");
    System.out.println( "+-----+");
    Scanner scanner = new Scanner(System.in);
    boolean wantFind = true;

    while (wantFind) {
        boolean tryAgain = true;

        while (tryAgain) {
            System.out.print("\nSupplier ID: ");
            String supplierID = scanner.nextLine();
            int index = search(suppliers, supplierID);

            if (index == -1) {
                System.out.print("can't find supplier id.Try again (y/n): ");
```

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```
        char input = scanner.nextLine().toLowerCase().charAt(0);

        if (input == 'n') {
            wantFind = false;
            tryAgain = false;
        }
    } else {
        suppliers = deleteRow(suppliers, index);
        System.out.print("deleted successfully! Do you want to delete another?(y/n) ");
        char input = scanner.nextLine().toLowerCase().charAt(0);

        if (input == 'n') {
            wantFind = false;
            tryAgain = false;
            clearConsole();

        } else {
            clearConsole();

            System.out.println( "+-----+");
            System.out.println( "|                                DELETE SUPPLIER                                |");
            System.out.println( "+-----+");

        }
    }
}
clearConsole();
supplierManage();

}

public static void updateSupplier() {
    clearConsole();
    System.out.println( "+-----+");
    System.out.println( "|                                UPDATE SUPPLIER                                |");
    System.out.println( "+-----+");
    Scanner scanner = new Scanner(System.in);
    boolean wantFind = true ;
    while (wantFind) {
        boolean tryAgain = true;
        while (tryAgain) {
            System.out.print("\nSupplier ID  :");
            String supplierID = scanner.nextLine();
            int index = search(suppliers, supplierID);
```

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```
        if (index == -1) {
            System.out.print("can't find supplier id. try again(y/n)");
            char input = scanner.nextLine().charAt(0);
            if (input == 'N' || input == 'n') {
                tryAgain= false;
                wantFind=false;
            }
        }else{
            System.out.println("Supplier Name :" +suppliers[index][1]);
            System.out.println();
            System.out.print("Enter the new Supplier Name :" );
            suppliers[index][1]= scanner.nextLine();

            System.out.print("Update Sucsessfully! Do you want to update annother
suplier(Y/N)");
            char input = scanner.nextLine().charAt(0);
            if (input == 'N' || input == 'n') {
                wantFind = false;
                tryAgain= false;
            }else{

                clearConsole();

                System.out.println( "+-----+");
                System.out.println( "|                                UPDATE SUPPLIER
|");

                System.out.println( "+-----+");

            }
        }
    }

    }

    }
clearConsole();
supplierManage();

}

public static void addSupplier() {
    clearConsole();
    System.out.println( "+-----+");
    System.out.println( "|                                ADD SUPPLIER                                |");
    System.out.println( "+-----+");
    System.out.println();
```

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```
boolean doYouWant = true;

while (doYouWant){
    Scanner scanner = new Scanner(System.in);

    System.out.print("Supplier ID :");
    String newID = scanner.nextLine();

    int x =search(suppliers, newID);
    if (x!=-1) {
        if (isFull(suppliers)==-1) {
            suppliers = grow(suppliers,2);
        }

        int lastIndex =suppliers.length-1;
        suppliers[lastIndex][0]=newID;

        System.out.print("Supplier Name : ");

        suppliers[lastIndex][1]= scanner.nextLine();

        System.out.print("added succesfully!");

    }else{
        System.out.print("already exists.");
    }

    System.out.print(" Do you want to add another supplier(Y/N)?");

    char isWant = scanner.next().charAt(0);
    if (isWant == 'N' || isWant == 'n'){
        doYouWant = false;
    }else{
        clearConsole();
        System.out.println( "+-----+");
        System.out.println( "|                ADD SUPPLIER                |");
        System.out.println( "+-----+");
        System.out.println();
    }
}
clearConsole();
supplierManage();
```


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}

```
public static void supplierManage(){
    System.out.println("+-----+");
    System.out.println("|          SUPPLIER MANAGE          |");
    System.out.println("+-----+");
    System.out.println();
    System.out.println("[1] Add Supplier           "+"[2] Update Supplier");
    System.out.println("[3] Delete Supplier       "+"[4] View Suppliers");
    System.out.println("[5] Search Supplier       "+"[6] Home Page");
    System.out.println();

    Scanner input = new Scanner(System.in);

    System.out.print("Ente an option to continue > ");
    int num =input.nextInt();

    switch(num) {
case 1:
    addSupplier();
    break;

case 2:
    updateSupplier();
    break;

case 3:
    deleteSupplier();
    break;

case 4:
    viewSuppliers();
    break;

case 5:
    searchSupplier();
    break;

case 6:
    clearConsole();
    homePage();
    break;

default:
    System.out.println("worng option try again! \n\n");
```

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```
        supplierManage();
    break;
}

}

public static void backHomePage(){
    Scanner input = new Scanner(System.in);

    System.out.print("Password change successfully! Do want to go home page.(Y/N:");
    String YaN =input.next();

    if(YaN.equals("y")){
        clearConsole();
        homePage();
    }else{
        newPass();
    }

}

public static void newPass(){
    Scanner input = new Scanner(System.in);

    System.out.print("Enter your new password :");
    String newPassword = input.next();

    pass=newPassword;
    backHomePage();
}

public static void changePassword(){
    Scanner input = new Scanner(System.in);

    System.out.print("Enter your current password :");
    String curentPass = input.next();

    if(pass.equals(curentPass)){
        newPass();
    }else{
        System.out.println("incorrect password. try again!");
        changePassword();
    }

}

public static void case1Details(){
    Scanner input= new Scanner(System.in);
    System.out.print("Please enter the user name to verify it's you :");
```

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```
String verifyName = input.next();

        if(usrName.equals(verifyName)){
            System.out.println("Hey hesh");
            changePassword();
        }else{
            System.out.println("invalid user name. try again! :");
            case1Details();
        }
    }
    public static void case1(){
        System.out.println("+-----+");
        System.out.println("|          CREDENTIAL MANAGE          |");
        System.out.println("+-----+");

        case1Details();
    }

    //////////////////////////////////////////stock management////////////////////////////////////////
    public static void addNewItemCategory() {
clearConsole();
System.out.println("+-----+");
System.out.println("|          ADD ITEM CATEGORY          |");
System.out.println("+-----+");

Scanner scanner = new Scanner(System.in);
boolean addAgain = true;
while (addAgain) {
    if (categories[0][0]==null) {
        System.out.print("Enter the new item Category:");
        String catName = scanner.nextLine();
        categories[0][0]= catName;
        System.out.print("add a ID :");
        categories[0][1] =scanner.nextLine();
    } else {
        int lastRow = categories.length-1;

        System.out.print("Category Name :");
        String catName = scanner.nextLine();
        int isFound = search(categories, catName);
        if (isFound!=-1) {
            System.out.println("Categery alredy added . ");
        }else{
```

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```
        if (categories[lastRow][0]!=null) {
            categories = grow(categories, 2);
        }
        lastRow=categories.length-1;
        categories[lastRow][0]= catName;
        System.out.print("add a ID :");
        categories[lastRow][1] =scanner.nextLine();
        System.out.println("Added Succesfull :)");
    }
}

generateTable(categareHeaders, categories);
System.out.println("\n Do you want to add annother(y/n)");
char input = scanner.nextLine().charAt(0);

if (input == 'n') {
    clearConsole();
    stockManage();
}

}

}

public static void deleteItemCategory() {
    clearConsole();
    System.out.println("+-----+");
    System.out.println("|          DELETE ITEM CATEGORY          |");
    System.out.println("+-----+");
    Scanner scanner= new Scanner(System.in);
    if (categories[0][0]==null) {
        System.out.println("No categaryies :");
        manageItemCatagories();
    } else {

        boolean addAgain = true;
        l1:while (addAgain) {
            System.out.print(" Category name to delete :");
            String delName = scanner.nextLine();
            int foundIndex = search(categories, delName);

            if (foundIndex==-1) {
                System.out.println("Categery not found . ");
            }else{
                if (foundIndex==0) {
                    categories[0][0]= null;
                    categories[0][1]= null;
                }
            }
        }
    }
}
```

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```
        break l1;
    } else {
        deleteRow(categories, foundIndex);
    }
}

System.out.print("Delete Succesfull :) \n Do you want to delete annother(y/n)");
char input = scanner.nextLine().charAt(0);

if (input == 'n') {
    addAgain = false;
}

}
}
manageItemCatagories();
}

public static void updateItemCategory() {
    clearConsole();
    System.out.println("+-----+");
    System.out.println("|          UPDATE ITEM CATEGORY          |");
    System.out.println("+-----+");

    Scanner scanner= new Scanner(System.in);
    if (categories[0][0]==null) {
        System.out.println("No categaryies to update :");
        manageItemCatagories();
    } else {

        boolean updateAgain = true;
        while (updateAgain) {
            System.out.print(" Category name to update :");
            String newName = scanner.nextLine();
            int foundIndex = search(categories, newName);
            if (foundIndex!=-1) {
                System.out.println("Category not found try aggain ");
            } else {
                System.out.println("new Name :");
                categories[foundIndex][0] = scanner.nextLine();
                System.out.println("Update Succesfull :) ");
            }
        }

        System.out.print(" \n Do you want to update annother(y/n)");
    }
}
```

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```
        char input = scanner.nextLine().toLowerCase().charAt(0);

        if (input == 'n') {
            updateAgain = false;
        }

    }
}
manageItemCatagories();
}

    public static void addItem() {
System.out.println("+-----+");
System.out.println("|                ADD ITEM                |");
System.out.println("+-----+");
        System.out.println();
        System.out.println("OOPS! It seems that you don't have any item categories in the
system.");
        Scanner scanner = new Scanner(System.in);
        System.out.print("Do you want to add a new item category?(Y/N)");
        String YandN=scanner.nextLine();

        if(YandN.equals("y")) {
            addNewItemCategory();
        }else{
            boolean addAnother = true;
while (addAnother) {
            System.out.print("Input a item code : ");
            String itemCode = scanner.nextLine();
            if (items[0][0]==null) {
                items[0][0]=itemCode;
                addItemHelp(itemCode);
            } else {
                int index=search(items, itemCode);
                if (index != -1) {
                    System.out.println("Item already added :( ");
                }else{
                    int emptyIndex = isFull(items);
                    if (emptyIndex== -1) {
                        items=grow(items,6);
                    }
                    addItemHelp(itemCode);
                }
            }
        }
    }

    System.out.print("Do you want to add annother (y/n)");
    char input = scanner.nextLine().charAt(0);
```

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```
        if (input == 'n') {  
            addAnother = false;  
        }  
    }  
}
```

```
}  
public static void addItemHelp(String itemCode){
```

```
    Scanner scanner = new Scanner(System.in);
```

```
    int row = items.length-1;  
    items[row][0]=itemCode;  
    System.out.print("Item description :");  
    items[row][3]= scanner.nextLine();  
    System.out.print("Unit price :");  
    items[row][4]=scanner.nextLine();  
    System.out.print("Qty on hand :");  
    items[row][5]=scanner.nextLine();  
    if (suppliers[0][0]==null) {  
        Scanner scanner2 = new Scanner(System.in);  
        System.out.print("No suppliers found :( | add suppliers(y/n)");  
        char input = scanner2.nextLine().charAt(0);  
        if (input == 'y') {  
            addSupplier();  
        }else{  
  
            for (int i = 0; i < items[row].length; i++) {  
                items[row][i]= null;  
            }  
            return;  
        }  
    }  
}
```

```
System.out.println("Chose supplier number \n");  
generateTable(supplierHeaders,suppliers);  
System.out.print("\nSUPPLIER NUMBER ->");  
int supNumber = scanner.nextInt();  
items[row][1]= suppliers[supNumber-1][0];
```

```
if (categories[0][0]==null) {  
    Scanner scanner2 = new Scanner(System.in);  
    System.out.print("No items category found :( | add category (y/n)");
```

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```
        char input = scanner2.nextLine().charAt(0);
        if (input == 'y') {
            addNewItemCategory();
        } else {

            for (int i = 0; i < items[row].length; i++) {
                items[row][i] = null;
            }
            return;
        }
    }

    System.out.println("Chose a catogery \n");
    generateTable(categareHeaders, categories);
    System.out.print("\nCATEGORY NUMBER ->");
    int catNumber = scanner.nextInt();
    items[row][2] = categories[catNumber-1][0];

    System.out.println("Item added sucesfully ");

}

public static void getItemsSupplierWise() {
    clearConsole();
    System.out.println("+-----+");
    System.out.println("|          GET ITEM SUPPLIER WISE          |");
    System.out.println("+-----+\n");
    Scanner scanner = new Scanner(System.in);
    if (items[0][0] == null || suppliers[0][0] == null) {
        System.out.println("No suppliers or categarys found ");
        System.out.print("Go back -> (y/n)");
        char input = scanner.nextLine().toLowerCase().charAt(0);

        if (input == 'y') {
            return;
        }
    }
    boolean again = true;
    while (again) {
        System.out.println("Suppler ID :");
        String id = scanner.nextLine();
        int index = search(suppliers, id);
        if (index == -1) {
            System.out.println("ID not found");
        } else {
            System.out.println("Supplier name :"+ suppliers[index][1] + "\n");
            printRowf(newheders);
        }
    }
}
```


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```
        for (String[] item : items) {
            if (item[1].equals(index)) {
                printRowf(item);
            }
        }
        System.out.println();
        System.out.println("Search sucseccfull");
    }
    System.out.println("\n Do you want to search again (y/n)");
    char input = scanner.nextLine().toLowerCase().charAt(0);

    if (input == 'n') {
        again=false;
    }
}
//done
public static void categorizeItems() {
    Scanner scanner = new Scanner(System.in);
    for (String[] category : categories) {
        String categoryName = category[0];
        System.out.println("Category: " + categoryName);

        printRowf(newheders);
        for (String[] item : items) {
            if (item[2].equals(categoryName)) {
                printRowf(item);
            }
        }
        System.out.println();
    }
    boolean ex = true;
    while (ex) {
        System.out.println("\n Go bacy (y/n)");
        char input = scanner.nextLine().toLowerCase().charAt(0);

        if (input == 'y') {
            ex = false;
        }
    }
}
public static void printRowf(String[] row) {
    int columns = row.length;

    for (int i = 0; i < columns; i++) {
        System.out.print("+-----");
    }
}
```

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```
System.out.println("+");

for (String value : row) {
    System.out.printf("| %-10s", value);
}
System.out.println("|");

for (int i = 0; i < columns; i++) {
    System.out.print("+-----");
}
System.out.println("+");
}

public static void rankItemsPerUnitPrice() {
    clearConsole();
    System.out.println("+-----+");
    System.out.println("|          RANK ITEMS PER UNIT PRICE          |");
    System.out.println("+-----+");
    Scanner scanner = new Scanner(System.in);
    if (items[0][0] == null) {
        boolean ex = true;
        while (ex) {
            System.out.print("NO ITEMS FOUND GO BACK (y/n) ->");
            char input = scanner.nextLine().toLowerCase().charAt(0);
            if (input == 'y') {
                ex = false;
                return;
            }
        }
    } else {
        int n = items.length;
        for (int i = 0; i < n - 1; i++) {
            for (int j = 0; j < n - i - 1; j++) {
                int first = Integer.valueOf(items[j][4]);
                int second = Integer.valueOf(items[j + 1][4]);
                if (first > second) {
                    String[] temp = items[j];
                    items[j] = items[j + 1];
                    items[j + 1] = temp;
                }
            }
        }
    }
    generateTable(itemHeaders, items);
}
```

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```
}
boolean ex = true;
while (ex) {
    System.out.println(" \n Go bacy (y/n)");
    char input = scanner.nextLine().charAt(0);

    if (input == 'y') {
        ex = false;
    }
}

}

    public static void manageItemCatagories() {
clearConsole();
System.out.println("+-----+");
System.out.println("|          MANAGE ITEM CATEGORY          |");
System.out.println("+-----+");
        System.out.println();
        System.out.println("[1] Add New Item Category          "+"[2] Delete Item
Category");
        System.out.println("[3] Update Item  Category          "+"[4] Stock Management");
        System.out.println();
System.out.print("Enter an option to continue >");
Scanner scanner = new Scanner(System.in);
int num = scanner.nextInt();

switch (num) {
    case 1:

        addNewItemCategory();
        manageItemCatagories();
        break;

    case 2:

        deleteItemCategory();
        break;

    case 3:

        updateItemCategory();
        break;

    case 4:

        stockManage();
```

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```
        break;

    default:
        System.out.println("invalid input :( ");
        manageItemCatagories();
        break;

    }

}

public static void stockManage(){
    System.out.println("+-----+");
    System.out.println("|                STOCK MANAGEMENT                |");
    System.out.println("+-----+");
    System.out.println("[1] Manage Item Categories          "+"[2] Add Item");
    System.out.println("[3] Get Item Supplier Wise        "+"[4] View Items");
    System.out.println("[5] Rank Items Per Unit Price      "+"[6] Home Page");
    System.out.println();
    Scanner input = new Scanner(System.in);
    System.out.print("Enter an option to continue > ");
    int num = input.nextInt();

    switch (num) {
        case 1:

            manageItemCatagories();
            break;

        case 2:
            clearConsole();
                               addItem();
            break;

        case 3:
            clearConsole();
            getItemSupplierWise();
            break;

        case 4:
            clearConsole();
            categorizeItems();
            break;

        case 5:
            clearConsole();
            rankItemsPerUnitPrice();
    }
}
```

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```
        break;

    case 6:
        clearConsole();
        homePage();

        break;

    default:
        System.out.println("try again");

        break;
}

}
```

```
////////////////////////////////////
public static void homePage(){
    System.out.println("+-----+");
    System.out.println("|          WELCOME TO IJSE STOCK MANAGEMENT
SYSTEM      |");
    System.out.println("+-----+");
    System.out.println("[1] Change the Credentials      "+"[2] Supplier Mange");
    System.out.println("[3] Stock Mange                "+"[4] Log out");
    System.out.println("[5] Exit the system");

    System.out.println();

    Scanner input = new Scanner(System.in);

    System.out.print("Ente an option to continue > ");
    int option =input.nextInt();

    switch(option){
        case 1:
            clearConsole();
            case1();
            break;
        case 2:
            clearConsole();
            supplierManage();
            break;
        case 3:
```

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```
                clearConsole();
                stockManage();
                break;
            case 4:
                clearConsole();
                LoginPage();
                break;
            case 5:
                clearConsole();
                break;
        }
    }
    public static void usrpass(){

        Scanner input = new Scanner(System.in);

        System.out.print("user pass: ");
        String pw = input.next();

        if(pass.equals(pw)){
            clearConsole();
            homePage();
        }else{
            System.out.println("user password is invalid. please try again!");
            usrpass();
        }
    }
}
public static void usrName(){

    Scanner input = new Scanner(System.in);

    System.out.print("user name: ");
    String userName = input.next();

    if(userName.equals(usrName)){

        usrpass();

    }else{
```

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```
again!");
                                System.out.println("user name is invalid. please try
                                usrName();
                                }
                                }
public static void LoginPage(){
    System.out.println("+-----+");
    System.out.println("|          LOGIN PAGE          |");
    System.out.println("+-----+");

    usrName();

}
public static void main(String args[]){
    LoginPage();

}
}
```