PROGRAMMING FUNDEMENTALS
(COURSE WORK)

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(GDSE 67 BATCH)

```
import java.util.*;
class yeha {
        private static Scanner input = new Scanner(System.in);
        private static String[] cred={"yehani","1234"};
        private static String[][] supplier=new String[2][0];
        private static String[] category={"food"};
        private static String[][] itemDetails1=new String[4][0];
        private static double[][] itemDetails2=new double[2][0];
        private static String[][] tempItemDetail1=new String[4][0];
        private static double[][] tempItemDetail2=new double[2][0];

    private static final 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) {
          // handle the exception
          System.err.println(e.getMessage());
       }
    }

    public static void lineAnimation(){
                System.out.print("+");
                for (int i = 0; i < 49; i++)
                        {
                                try{Thread.sleep(5);}catch(Exception e){}
                                System.out.print("--");
                        }
                        //System.out.println("\b\b\b\b ");
                        System.out.println("+");
         }


    public static void loginPage() {

       lineAnimation();
                System.out.printf("|%49s","LOGIN PAGE");//+
                System.out.printf("%49s|\n"," ");//-
                lineAnimation();
```

```
            while (true) {
        System.out.println();
        String[] cred = { "yehani", "1234" };

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

        boolean isMatched = checkUserNameValidity(cred,
userName);
        if (isMatched) {
            System.out.println();
            while (true) {
                System.out.print("Enter the password: ");
                String pw = input.next();

                boolean isCorrected = checkPw(cred, pw);
                if (isCorrected) {
                    homePage();
                    optionList();
                    break;
                } else {
                    System.out.println("Password is incorrect. Please try
again!");
                    System.out.println();
                }
            }
            break;
        } else {
            System.out.println("Username is invalid. Please try
again!");
        }
    }

}

public static boolean checkUserNameValidity(String[] cred, String
userName) {
    return cred[0].equals(userName);
}

public static boolean checkPw(String[] cred, String pw) {
    return cred[1].equals(pw);
}

public static void homePage() {
    clearConsole();
    System.out.println("+----------------------------------------------------------
-------------+");
```

```
        System.out.println("|                 WELCOME TO IJSE STOCK
MANAGEMENT SYSTEM            |");
        System.out.println("+-----------------------------------------------------------
-------------+");

    }

        public static void changeCredential(){
                        clearConsole();
                        lineAnimation();
                        System.out.printf("|%49s","CREDENTIAL
CHANGE");//+
                        System.out.printf("%49s|\n"," ");//-
                        lineAnimation();


                    while (true) {
                        System.out.println();
          System.out.print("Enter the user name to verify it's you: ");
          String userName = input.next();

          boolean isMatched = checkUserNameValidity(cred,
userName);
          if (isMatched) {
             System.out.println();
             System.out.println("hey "+userName);
             while (true) {
                System.out.print("Enter your current password: ");
                String pw = input.next();

                boolean isCorrected = checkPw(cred, pw);
                if (isCorrected) {
                   changePassword(cred);
                   break;
                } else {
                   System.out.println("Incorrect password. try again!");
                }
             }
             break;
          } else {
             System.out.println("Invalid username. try again!");
          }
                }
        }
        public static void changePassword(String[] cred){
               System.out.print("Enter the new Password: ");
               cred[1] = input.next();
```

```
            System.out.print("Password changed successfully ! Do
you want to go home page(Y/N) : ");
            char op = input.next().charAt(0);
            if(op=='Y'|| op=='y') {
                  clearConsole();
                  homePage();
                  optionList();
            }else if(op=='N'|| op=='n') {
                  clearConsole();
                  homePage();
                  optionList();
            }

      }

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


      public static void growSupplier(){
                  String[][] temp=new
String[2][supplier[0].length+1];
                  for (int i = 0; i < supplier[0].length; i++){

                              temp[0][i]=supplier[0][i];
                              temp[1][i]=supplier[1][i];
                  }


            supplier=temp;
      }

      public static void addSupplier(){
            clearConsole();
            lineAnimation();
            System.out.printf("|%49s","ADD SUPPLIER");//+
            System.out.printf("%49s|\n"," ");//-
            lineAnimation();


            while(true){
                  clearConsole();
                  System.out.print("Supplier ID : ");
```

```
                        String id = input.next();
                        int index = search(supplier[0],id);
                        if(index==-1){
                        growSupplier();

                        supplier[0][supplier[0].length-1]=id;
                        System.out.print("Supplier Name : ");
                        String name = input.next();

                        supplier[1][supplier[1].length-1]=name;
                        }else{
                                System.out.println("Already exists. try
another Supplier ID ");
                        }
                        System.out.print("Added succesfully.Do you want
to add Another Supplier(y/n) : ");
                        char ch = input.next().charAt(0);
                        if((ch=='n')||(ch=='N')){
                        clearConsole();
                        supplierManage();
                        }
                }
        }

        public static void updateSupplier(){
                        clearConsole();
                        lineAnimation();
                        System.out.printf("|%49s","UPDATE
SUPPLIERS");//+
                        System.out.printf("%49s|\n"," ");//-
                        lineAnimation();

                while(true){
                        System.out.print("Supplier ID: ");
                        String id = input.next();
                                int index=search(supplier[0],id);
                                if(index!=-1){
                                        System.out.println("Supplier Name:
"+supplier[1][index]);
                                        System.out.print("Input new Supplier
Name: ");
                                        String newName=input.next();
                                        supplier[1][index]=newName;

                                }else{
                                        System.out.println("Can't find Supplier
Id.try again!");
                                }
```

```
                                System.out.print("Updated succesfully!
Do you want to update another supplier?(Y/N) ");
                                char op=input.next().charAt(0);
                                if((op == 'N') || (op == 'n')){
                                        supplierManage();
                                }
                        }
                }

        public static void removeIdSupplierArray(int index){
                String[][] temp=new String[2][supplier[0].length];
                int j=0;
                for (int i = 0; i < supplier[0].length ; i++){
                        if(i != index){
                        j++;
                        temp[0][j]=supplier[0][i];
                        temp[i][j]=supplier[1][j];
                        }
                }
                temp = supplier;
        }
        public static void deleteSupplier(){
                clearConsole();
                lineAnimation();
                System.out.printf("|%49s","DELETE SUPPLIER");//+
                System.out.printf("%49s|\n"," ");//-
                lineAnimation();

                while(true){
                        System.out.print("Supplier ID: ");
                        String id=input.next();
                        int index=search(supplier[0],id);
                        if(index != -1){
                        System.out.print("Do you want to delete"+"
"+supplier[1][index]+" from this system (y/n)?" );
                        char ch=input.next().charAt(0);
                                if(ch == 'y'){
                                removeIdSupplierArray(index);
                                }else{
                                System.out.println(supplier[1][index]+"not
deleted");
                                }

                        }else{
                        System.out.println("Can't find supplier id.try
again!");
                        }
```

```
                        System.out.println("deleted succesfully! Do you
want to delete another supplier(y/n): ");
                        char op = input.next().charAt(0);
                        if((op == 'N') || (op == 'n')){
                                        supplierManage();;
                        }
                }
        }
        public static void viewSuppliers(){
                        clearConsole();
                        lineAnimation();
                        System.out.printf("|%49s"," VIEW SUPPLIERS");
                        System.out.printf("%49s|\n"," ");
                        lineAnimation();

                while(true){
                        System.out.println("+-------------------------------------
---+-----------------------------------------+");
                        System.out.printf("|            %-30s|           %-
30s|\n","SUPPLIER ID","SUPPLIER NAME");
                        System.out.println("+-------------------------------------
---+-----------------------------------------+");
                        for (int i = 0; i < supplier[0].length; i++){

                        System.out.printf("|            %-30s|           %-
30s|\n",supplier[0][i],supplier[1][i]);
                        }
                        System.out.println("+-------------------------------------
---+-----------------------------------------+");

                        System.out.print("Do you want to go supplier
manage page(Y/N)? ");
                        char ch=input.next().charAt(0);
                        if((ch == 'Y') ||(ch == 'y')){
                                supplierManage();
                        }if((ch == 'N') || (ch == 'n')){
                                clearConsole();
                                homePage();
                                optionList();
                        }
                }
        }


        public static void searchSupplier(){
                        clearConsole();
                        lineAnimation();
                        System.out.printf("|%49s","SEARCH
SUPPLIER");//+
```

```
                    System.out.printf("%49s|\n"," ");//-
                    lineAnimation();

                    while(true){
                    System.out.print("Supplier ID: ");
                    String id=input.next();

                    int index=search(supplier[0],id);
                    if(index != -1){
                        System.out.println("Supplier Name: "+
supplier[1][index]);
                    }else{
                        System.out.println("Can't find supplier id.try
again!");
                        continue;
                    }
                    System.out.print("Added successfully! Do you
want to add another find(Y/N)? ");
                    char ch=input.next().charAt(0);

                    if((ch == 'N') || (ch == 'n')){
                        clearConsole();
                        supplierManage();
                    }

                }
        }

        public static void HomePage(){

                homePage();
                optionList();
        }

        public static void supplierManage(){
                clearConsole();
                lineAnimation();
                System.out.printf("|%49s","SUPPLIER MANAGE");
                System.out.printf("%49s|\n"," ");
                lineAnimation();


                System.out.println();
                System.out.print("[1] Add Supplier\t\t\t");
                System.out.println("[2] Update Supplier");
                System.out.print("[3] Delete Supplier");
                System.out.print("\t\t\t");
                System.out.println("[4] View Suppliers");
                System.out.print("[5] Search Supplier");
```

```
            System.out.println("\t\t\t[6] Home Page");
            System.out.println();
            System.out.println();

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

            switch(opNumber){
                    case 1:
               addSupplier();
               break;
            case 2:
               updateSupplier();
               break;
            case 3:
               deleteSupplier();
               break;
            case 4:
               viewSuppliers();
               break;
            case 5:
               searchSupplier();
               break;
            case 6:
               homePage();
               optionList();
               return;
            default:
               System.out.println("Not an option. try again.");
         }
         supplierManage();
      }



       public static String[] growArray(String[] category ){
            String[] temp=new String[category.length+1];
            for(int i=0;i<category.length;i++){
                    temp[i]=category[i];
            }
            return temp;
       }

       public static int SearchCategory(String[] category,String
data){
            for(int i=0;i<category.length;i++){
                    if(category[i].equals(data)){
                            return i;
                    }
```

```
            }
            return -1;
        }

        public static void addNewItemCategory(){
            clearConsole();
            lineAnimation();
            System.out.printf("|%49s","ADD ITEM CATEGORY");
            System.out.printf("%49s|\n"," ");
            lineAnimation();

            while(true){
                System.out.print("Enter the new item category: ");
                String Icategory=input.next();

                int index=SearchCategory(category,Icategory);
                if(index ==-1){
                    category=growArray(category);
                    category[category.length-1]=Icategory;
                    System.out.println("Adding category is
successful");

                }else{
                System.out.print("item category already exists. ");
                }
                System.out.print("Do you want to add another
Category(y/n)?: ");
                char op=input.next().charAt(0);
                if((op == 'N') || (op == 'n')){
                    manageItemCategory();

                }
            }

        }
        public static void showAllItemCategory(){
                System.out.println("+---------+------------------+");
                System.out.printf("|  %-5s  |  %-14s
|\n","Index","category Name");
                System.out.println("+---------+------------------+");
                for(int i=0;i<category.length;i++){
                System.out.printf("|  %-5s  |  %-14s
|\n",i+1,category[i]);
                }
                System.out.println("+---------+------------------+");

        }
```

```
	public static String[] removeIndex(int index,String [] category){
		String[] temp = new String[category.length-1];
		int j =0;
		for (int i = 0; i < category.length; i++)
		{
			if(i!=index){
				temp[j] = category[i];

				j++;
			}
		}
		return temp;
	}
	public static void deleteItemCategory(){
		clearConsole();
		lineAnimation();
		System.out.printf("|%49s","DELETE ITEM CATEGORY");
		System.out.printf("%49s|\n"," ");
		lineAnimation();

		L1:
		while(true){
			showAllItemCategory();
			while(true){
				System.out.print("Enter index number to delete Category : ");
				int index = input.nextInt();
				if((index>0) && (index<=category.length)){
					System.out.print("Do you Want to delete "+category[index-1]+" from the system (y/n) : ");
					char ch=input.next().charAt(0);
					if(ch =='y'){
						category=removeIndex(index-1,category);
						System.out.println("Deleted Successfully!");
						break;
					}else{
						System.out.println("category Not Deleted");
					}

				}else{
					System.out.println("Wrong Input number.Try Again!");
				}
				System.out.print("Do you want to delete another item category:(y/n)?  ");
```

```
                        char op=input.next().charAt(0);
                        if((op == 'N') || (op == 'n')){
                                manageItemCategory();

                        }
                }
        }
    }

    public static void updateItemCategory(){
            clearConsole();
            lineAnimation();
            System.out.printf("|%49s","UPDATE ITEM CATEGORY");
            System.out.printf("%49s|\n"," ");
            lineAnimation();

            L1:
            while(true){
                    showAllItemCategory();
                    while(true){
                    System.out.print("Enter the index number to
update item category: ");
                    int index=input.nextInt();
                            if((index>0) && (index<=category.length)){
                                    System.out.println("Name of item
Catagory : "+category[index-1]);
                                    System.out.println();
                                    System.out.print("Enter the new
category name: ");
                                    String newName=input.next();
                                    System.out.println("update
successfully!new category name is: "+newName);
                            }else{
                                    System.out.println("wrong number.try
again!");
                            }
                    System.out.print("Do you want to update another
item category(y/n): ");
                    char op=input.next().charAt(0);
                            if((op == 'N') || (op == 'n')){
                                    manageItemCategory();

                            }
                    }
            }
    }

    public static void stockManagement(){
                    stockManage();
```

```
	}

	public static void manageItemCategory(){
			clearConsole();
			lineAnimation();
			System.out.printf("|%49s","MANAGE ITEM
CATEGORY");
			System.out.printf("%49s|\n"," ");
			lineAnimation();

			System.out.println();
			System.out.print("[1] Add New Item
Category\t\t\t");
			System.out.println("[2] Delete Item Category");
			System.out.print("[3] Update Item Category");
			System.out.print("\t\t\t");
			System.out.println("[4] Stock Management");
			System.out.println();
			System.out.print("Enter an option to continue > ");
			int opNum=input.nextInt();

			switch(opNum){

			case 1:
				addNewItemCategory();
				break;

			case 2:
				deleteItemCategory();
				break;

			case 3:
				updateItemCategory();
				break;

			case 4:
				stockManagement();
				break;
			}

		}

	public static void viewAllSuppliers(){
		System.out.println("+------+-------------------------------------
---+----------------------------------------+");
		System.out.printf("|  %-2s  |           %-30s|           %-
30s|\n","#","SUPPLIER ID","SUPPLIER NAME");
		System.out.println("+------+-------------------------------------
---+----------------------------------------+");
```

```
                for (int i = 0; i < supplier[0].length; i++){
                        System.out.printf("|  %-2s  |           %-
30s|          %-30s|\n",i+1,supplier[0][i],supplier[1][i]);
                }
                System.out.println("+------+-------------------------------------
---+----------------------------------------+");
        }
        public static void exit(){
                System.exit(0);
        }


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

        public static String[] incrementArray(String[] ar){
                String[] temp = new String[ar.length+1];
                for (int i = 0; i < ar.length; i++)
                {
                        temp[i]=ar[i];
                }
                return temp;
        }

        public static String[][] incrementArray(String[][] ar){
                String[][] temp=new String[ar.length][];
                for (int i = 0; i < ar.length; i++)
                {
                        temp[i] = incrementArray(ar[i]);
                }
                return temp;
        }

        public static double[] incrementArray(double[] ar){
                double[] temp = new double[ar.length+1];
                for (int i = 0; i < ar.length; i++)
                {
                        temp[i]=ar[i];
                }
                return temp;
        }

        public static double[][] incrementArray(double[][] ar){
```

```
		double[][] temp=new double[ar.length][];
		for (int i = 0; i < ar.length; i++)
		{
			temp[i] = incrementArray(ar[i]);
		}
		return temp;
	}
	public static void addItem(){
		while(true){
			clearConsole();
			lineAnimation();
			System.out.printf("|%49s","ADD ITEM");
			System.out.printf("%49s|\n"," ");
			lineAnimation();

			if(category.length==0){
				System.out.println("Oops It seems like you
don't have any item catagories in the system");
				System.out.print("DO You Want To Add New
Catagory(y/n): ");
				char ch=input.next().charAt(0);
				if(ch=='y'){
				addNewItemCategory();
					continue;
				}

			}if(supplier[0].length==0){
				System.out.println("Oops... It seems like you
don't have any Suppliers in the system");
				System.out.print("Do you want to add new
supplier(y/n): ");
				char ch=input.next().charAt(0);
					if(ch=='y'){
					addSupplier();
					continue;
				}

			}

			String itemCode;
			do{
				System.out.print("Input Item Code > ");
				itemCode= input.next();
				int index =
searchFromArray(itemDetails1[0],itemCode);
				if(index==-1){
					break;
				}else{
```

```
                                System.out.println("Item Code Alredy
Exists.Try Again!");
                        }
                    }while(true);
                    viewAllSuppliers();
                    int supNum;
                    do{
                        System.out.print("Enter No of Supplier > ");
                        supNum= input.nextInt();

      if((supNum>0)&&(supNum<=supplier[0].length)){
                            break;
                        }else{
                            System.out.println("Enter Valid
Number For Supplier");
                        }

                    }while(true);
                    showAllItemCategory();
                    int catNo;
                    do{
                        System.out.print("Enter No of Catagory : ");
                        catNo= input.nextInt();
                        if((catNo>0)&&(catNo<=category.length)){
                            break;

                        }else{
                            System.out.println("Enter Valid
Number For Category");
                        }

                    }while(true);
                    itemDetails1=incrementArray(itemDetails1);
                    itemDetails2=incrementArray(itemDetails2);

                    System.out.print("Input Description : ");
                    String description = input.next();

                    System.out.print("Input Unit Price : ");
                    double price = input.nextDouble();

                    System.out.print("Input QTY : ");
                    double qty = input.nextDouble();

                    itemDetails1[0][itemDetails1[0].length-1] =
itemCode;
                    itemDetails1[1][itemDetails1[1].length-1] =
description;
```

```
                        itemDetails1[2][itemDetails1[2].length-1] =
supplier[0][supNum-1];
                        itemDetails1[3][itemDetails1[3].length-1] =
category[catNo-1];
                        itemDetails2[0][itemDetails2[0].length-1] = price;
                        itemDetails2[1][itemDetails2[1].length-1] = qty;
                        System.out.println("Item Added Successfully!");

                        System.out.print("Do you want to another item
(y/n) : ");
                        char ch=input.next().charAt(0);
                        if((ch == 'N') || (ch == 'n')){
                        stockManage();
                        }
                }

        }

        public static void getItemSupplierWise(){
                while(true){
                        clearConsole();
                        lineAnimation();
                        System.out.printf("|%49s","SEARCH SUPPLIER");
                        System.out.printf("%49s|\n"," ");
                        lineAnimation();

                while(true){
                                System.out.print("Input Supplier ID: ");
                                String id = input.next();
                                for (int i = 0; i < supplier.length; i++) {

                                        int
index=searchFromArray(supplier[0],id);
                                        if(index!=-1){

                                        System.out.println("Supplier Name :
"+supplier[1][index]);

                                        System.out.println("\n\n\n+-----------+--
----------------+-------------+-------------+-------------+");
                                        System.out.printf("|  %-5s |    %-
15s|   %-10s|  %-10s|   %-10s|\n","ITEMCODE","DESCRIPTION","UNIT
PRICE","QTY ON HAND","CATEGORY");
                                        System.out.println("+-----------+----------
---------+-------------+-------------+-------------+");
                                        for (int j = 0; j <
itemDetails1[2].length; j++){
                                                if(id.equals(itemDetails1[2][j])){
```

```
                                                System.out.printf("|    %-
5s  |   %-15s|  %-10.2f|  %-10.2f|  %-
10s|\n",itemDetails1[0][j],itemDetails1[1][j],itemDetails2[0][i],itemD
etails2[1][i],itemDetails1[3][i]);

                                        }
                                }
                                System.out.println("+-----------+----------
---------+------------+------------+------------+");
                                break;
                                }else{
                                System.out.println("wrong supplier
ID");
                                }
                                System.out.print("Do you want to
stock manage page(y/n): ");
                                char ch=input.next().charAt(0);

                                if((ch == 'Y')|| (ch == 'y')){
                                stockManage();
                                }if((ch == 'N') || (ch == 'n')){
                                getItemSupplierWise();
                                }

                        }
                }
        }
    }

    public static void viewItems(){

                clearConsole();
                lineAnimation();
                System.out.printf("|%49s","VIEW ITEMS");
                System.out.printf("%49s|\n"," ");
                lineAnimation();

        while(true){
                for (int i = 0; i < category.length; i++)
                {
                        System.out.println("\n\n"+category[i]+" : ");
                        System.out.println("\n+-------------+----------
+------------------+------------+------------+");
                        System.out.printf("|  %-10s|  %-5s |    %-
15s|   %-10s|  %-10s|\n","Supplier ID","ItemCode","Description","Unit
Price","QTY ON HAND");
                        System.out.println("+-------------+----------+---
---------------+------------+------------+");
                        for (int j = 0; j < itemDetails1[0].length; j++)
```

```
                        {

        if(category[i].equals(itemDetails1[3][j])){
                                        System.out.printf("|   %-
10s|    %-5s  |    %-15s|   %-10.2f|   %-
10.2f|\n",itemDetails1[2][j],itemDetails1[0][j],itemDetails1[1][j],item
Details2[0][j],itemDetails2[1][j]);
                                    }
                        }
                        System.out.println("+-------------+-----------+---
----------------+-------------+-------------+");
                }
                System.out.print("Do you want to go back to the
stock manage page?(y/n):   ");
                char op=input.next().charAt(0);
                if (op == 'Y' || op == 'y') {
                clearConsole();
                stockManage();
                getItemSupplierWise();

                }else if(op == 'N' || op == 'n'){
                exit();
                }
        }

    }



    public static void copyAllData(){
        tempItemDetail1 = new
String[4][itemDetails1[0].length];
        tempItemDetail2 = new
double[2][itemDetails2[0].length];
        for (int i = 0; i < itemDetails1.length; i++)
        {
            for (int j = 0; j < itemDetails1[i].length; j++)
            {
                tempItemDetail1[i][j] = itemDetails1[i][j];
            }

        }
        for (int i = 0; i < itemDetails2.length; i++)
        {
            for (int j = 0; j < itemDetails2[i].length; j++)
            {
                tempItemDetail2[i][j] = itemDetails2[i][j];
            }
```

```
		}

	}

	public static void sortByPrice(){
		copyAllData();
		for (int i = tempItemDetail2[0].length; i > 0 ; i--){
			double max = Double.MIN_VALUE;
			int index=-1;
			for (int j = 0; j < i; j++)
			{
				if(max<tempItemDetail2[0][j]){
					index=j;
					max=tempItemDetail2[0][j];
				}
			}
			tempItemDetail2[0][index]=tempItemDetail2[0][i-
1];
			tempItemDetail2[0][i-1] = max;

			double qty = tempItemDetail2[1][i-1];
			tempItemDetail2[1][i-
1]=tempItemDetail2[1][index];
			tempItemDetail2[1][index] = qty;

			for (int j = 0; j < tempItemDetail1.length; j++)
			{
				String data = tempItemDetail1[j][i-1];
				tempItemDetail1[j][i-1] =
tempItemDetail1[j][index];
				tempItemDetail1[j][index] = data;
			}



		}

	}

	public static void rankItemPerUnitPrice(){
		while(true){
			clearConsole();
			lineAnimation();
			System.out.printf("|%49s"," RANKED UNIT PRICE");
			System.out.printf("%49s|\n"," ");
			lineAnimation();

			sortByPrice();
```

```
                    System.out.println("\n+-------------+-----------+---------
----------+------------+------------+------------+");
                    System.out.printf("|  %-10s|  %-5s |    %-15s|   %-
10s|  %-10s|  %-10s|\n","Supplier ID","ItemCode","Description","Unit
Price","QTY ON HAND","Catagory");
                    System.out.println("+-------------+-----------+----------
--------+------------+------------+------------+");
                    for (int j = 0; j < tempItemDetail1[0].length; j++)
                    {
                    System.out.printf("|   %-10s|    %-5s  |    %-
15s|   %-10.2f|   %-10.2f|  %-
10s|\n",tempItemDetail1[2][j],tempItemDetail1[0][j],tempItemDetail
1[1][j],tempItemDetail2[0][j],tempItemDetail2[1][j],tempItemDetail1
[3][j]);
                    }
                    System.out.println("+-------------+-----------+----------
--------+------------+------------+------------+");

                    System.out.print("Do You Want To go Stock
Manage Page(y/n) : ");
                    char ch=input.next().charAt(0);
                    if((ch == 'Y')|| (ch == 'y')){
                                stockManage();
                    }
            }
      }



      public static void stockManage(){
            clearConsole();
            lineAnimation();
            System.out.printf("|%49s","STOCK MANAGEMENT");//+
            System.out.printf("%49s|\n"," ");//-
            lineAnimation();

            System.out.println();
            System.out.print("[1] Manage Item Categories\t\t");
            System.out.println("[2] Add Item");
            System.out.print("[3] Get Items Supplier Wise");
            System.out.println("\t\t[4] View Items");
            System.out.print("[5] Rank Items Per Unit Price");
            System.out.println("\t\t[6] Home Page");
            System.out.println();
            System.out.println();

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

```
            switch (optionN) {
          case 1:
             manageItemCategory();
             break;
          case 2:
             addItem();
             break;
          case 3:
             getItemSupplierWise();
             break;
          case 4:
             viewItems();
             break;
          case 5:
             rankItemPerUnitPrice();
             break;
          case 6:
             homePage();
             optionList();
             return;
          default:
             System.out.println("Not an option. try again.");
       }

        }

        public static void logOut(){
               clearConsole();
               loginPage();
               optionList();

        }
        public static void exitSystem(){
               clearConsole();


        System.out.println("****************************************
*********");
               System.out.println("               GOOD BYE
               ");

        System.out.println("****************************************
*********");
               exit();
        }
        public static void optionList(){
               System.out.print("[1]Change the Credentials");
               System.out.print("\t");
               System.out.println("[2]Supplier Manage");
```

```
            System.out.print("[3]Stock Manage");
            System.out.print("\t\t\t");
            System.out.println("[4]Log out");
            System.out.print("[5]Exit the System");

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

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


            if(opNum == 1){
                  changeCredential();
            }

            if(opNum == 2){
                  supplierManage();
            }

            if(opNum  == 3){
                  stockManage();
            }

            if(opNum == 4){
                  logOut();
            }

            if(opNum == 5){
                  exitSystem();

            }
      }


   public static void main(String args[]) {
      loginPage();
      optionList();


   }
}
```

****