

A211 SESSION 2021/2022

STIA1113 PROGRAMMING I GROUP C

GROUP PROJECT

TOPIC: FOOD

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MATRIC NUMBER	NAME	SUBTOPIC
287102	HO JUN HAN	BREAD
287148	DANIEL FIKREY BIN HAIRULRIZAL	CAKE
287156	HO WAI KIAT	RICE
287194	KOR JUN XIANG	DESSERTS
287438	NURLAILATUL AQILAH BINTI NASIR	FRUITS

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1.0 Background of the project

Food is a substance made up mostly of protein, carbohydrates, fat, and other nutrients that are used in the body of an organism to fuel development and important operations. Digestion aids in the absorption and utilization of food by the body, which is essential for nutrition. Food can be classified into many categories, which are bread, cake, rice, desserts and fruits.

1.1 Background for bread

Definition of bread

The most common product that is sold in the bakery which is bread. Bread is a staple food prepared from a dough of flour (usually wheat) and water, usually by baking. Throughout recorded history and around the world, it has been an important part of many cultures' diet. It is one of the oldest human-made foods, having been of significance since the dawn of agriculture, and plays an essential role in both religious rituals and secular culture.

The most common source of leavening was to retain a piece of dough from the previous day to use as a form of sourdough starter. The Chorleywood bread process was developed in 1961; it uses the intense mechanical working of dough to dramatically reduce the fermentation period and the time taken to produce a loaf. The process, whose high-energy mixing allows for the use of grain with a lower protein content, is now widely used around the world in large factories. As a result, bread can be produced very quickly and at low costs to the manufacturer and the consumer.

Problem

TK Bakery bakers are required to buy ingredients from the market for making breads whenever the ingredients are inadequate. The bakers have the responsibility for preparing and measuring the quantity of ingredients that are needed for respective breads properly. The price of the ingredients is changing periodically because the price of the ingredients is based on the market price. The cost of the ingredients will affect the price of breads that will be sold in the bakery. Thus, a price calculation system is utilized. The system also can be used as a cashier system to make bill payment.

1.2 Background for cake

The history of cake begins from the word of Viking origin, which is 'kaka'. But for ancient Greeks, the way they call a cake is flat. The ingredients that they use to make a flat is using flour mixed with eggs, milk, nuts and honey. Then during the Roman period, the name of cake become a placenta. The ways to bake a placenta in this period is a bit different which is a placenta was bake on a pastry base or inside a pastry case. In England, cake is essentially with bread but what make it different is the round, flat shape of the cakes and the cooking method. Cake is form of sweet food made from flour, sugar and other ingredients. Cake is very popular food among the people around the world. There are many people who like a cake. Cake also frequently use in many events such as birthday party, weddings, anniversaries and many more. So, many people who open bakery to try make money by selling a cake. There are many types of cake which is pandan cake, red velvet cake, vanilla cake, chocolate cake and many more.

The problem is Sarah bakery had trouble getting the ingredients to make cake every day and they had to buy the ingredients every day. The problem is sometimes the ingredients that they looking for is sufficient but there's a times when they not getting enough ingredients to make the number of cake that they target on that day and it really disturb their business. Then is she want to buy all at once it will be difficult because she don't know the right mass of each ingredient.

1.3 Background for rice

• Definition of rice

Rice is the seed of the grass species Oryza sativa (Asian rice) or less commonly Oryza glaberrima (African rice). The name wild rice is usually used for species of the genera Zizania and Porteresia, both wild and domesticated, although the term may also be used for primitive or uncultivated varieties of Oryza.

As a cereal grain, domesticated rice is the most widely consumed staple food for over half of the world's human population, especially in Asia and Africa. It is the agricultural commodity with the third-highest worldwide production, after sugarcane and maize. Since sizable portions of sugarcane and maize crops are used for purposes other than human consumption, rice is the most important food crop with regard to human nutrition and caloric

intake, providing more than one-fifth of the calories consumed worldwide by humans. There are many varieties of rice and culinary preferences tend to vary regionally.

The traditional method for cultivating rice is flooding the fields while, or after, setting the young seedlings. This simple method requires sound irrigation planning but reduces the growth of less robust weed and pest plants that have no submerged growth state, and deters vermin. While flooding is not mandatory for the cultivation of rice, all other methods of irrigation require higher effort in weed and pest control during growth periods and a different approach for fertilizing the soil.

Rice, a monocot, is normally grown as an annual plant, although in tropical areas it can survive as a perennial and can produce a ratoon crop for up to 30 years. Rice cultivation is well-suited to countries and regions with low labor costs and high rainfall, as it is labor-intensive to cultivate and requires ample water. However, rice can be grown practically anywhere, even on a steep hill or mountain area with the use of water-controlling terrace systems. Although its parent species are native to Asia and certain parts of Africa, centuries of trade and exportation have made it commonplace in many cultures worldwide. Production and consumption of rice is estimated to have been responsible for 4% of global greenhouse gas emissions in 2010.

• Problem

H & H Food Corp Sdn Bhd is a rice company. They have to ensure that the yield of the rice can always meet market demand every time. Therefore, the yield of each type of rice needs to be calculated strictly to ensure that it does not inefficient supply. However, market demand is often affected by many factors, and yield of the rice will also change. H & H Food Corp Sdn Bhd has a large arable land, and it would take a long time to calculate the yield by manpower. So, H & H Food Corp Sdn Bhd needs to make calculations based on the area of the farm to planning the sales and the inventory. After this, market demand is often affected by many factors, and yield of the rice will also change. H & H Food Corp Sdn Bhd needs to be well calculated in next harvest amount of the rice to facilitate future farming plans. At last, the quantity of each type of rice is huge, so calculating the inventory needs to be careful and fast. Each type of rice has a different grade, which complicates the calculation. H & H Food Corp Sdn Bhd needs to ensure that the inventory is accurate to ensure normal daily sales.

1.4 Background for desserts

Dessert is a <u>course</u> that concludes a meal. The course consists of sweet foods, such as <u>confections</u>, and possibly a beverage such as <u>dessert wine</u> and <u>liqueur</u>. There is no tradition of a dessert course to conclude a meal in some parts of the world such as much of <u>Central Africa, West Africa</u> and most parts of <u>China</u>. The word dessert can be applied to many types of confections, such as cakes, biscuits, cookies, puddings, custards, macarons, pastries, etc. Fruits is also commonly found in dessert courses because of its naturally occurring sweetness.

The market for dessert has grown over the last few decades, which was greatly increased by the commercialism of baking desserts and the rise of food productions. There is many different types of desserts shop has been established now in Malaysia such as Mykori Dessert Cafe, Dessert-Hunting, Joslyn Cakes, Ilao Ilao, Dáo Desserts and others. There all have their unique desserts and design of the shop to attract customers. Katey has open a dessert shop and she faced the problem that her shop can be operated or not which mean the dessert shop can be able to bring profits to her or not.

The problem that Katey faced is that the dessert shop she opened was able to bring profits or loss to her. As we see the problem, when a person opens a shop, he or she will need to know the profit or loss after a month of the shop operated, this is important because it mean that your shop can be operated in long term or short term. If the shop brings profits to you, you can operate it in long time as you have the money to operated it. If the shop incapable to bring profits to you, as the time go, when you spend all the money into the shop and then you may face bankrupt of the shop. So, we need to know how to calculate the net profits of the shop gain as the net income earned by Katey.

1.5 Background for fruits

A fruit is seed-bearing structure in flowering plants that is formed from the ovary after flowering. Fruits are the means by which flowering plants disseminate their seeds. Following the three main modes of fruit development, scientist have classified fruits according to their various groups which are composite fruits, simple fruits, and aggregates.

Sin Seng Huat (SSH) is one of the pioneer crop production companies in Malaysia. Sin Seng Huat manufactures and distributes a wide range of high-quality products ranging from vegetables seeds, agrochemicals, agriculture implements and fertilizers. Their products are getting diverse to satisfy the agriculture business which is getting more challenging, modern,

and growing demand annually. One of SSH seeds' strengths is that they have their own R&C department, and they are partnering with 45 seed-breeders around the world.

A contracted farmer who is working with Sin Seng Huat wants to build a greenhouse containing various types of fruits for a project that the company already planned for. They do not want to extend their budget because building the greenhouse took a lot of money. The problem is the farmer does not know the whole cost that they need to use to buy the seeds to fill up the greenhouse with various types of fruits. Currently, the farmer is searching for sellers that sell a whole bundle of seeds with a reasonable price and having a good quality of seeds.

2.0 Program descriptions

- 1. First, after running this program, it will display a greeting to you and ask for your name.
- 2. After entering your name, it displays the main menu of the application.

```
Good Morning!
How could we call you?
Alan Tan
Hi! Alan Tan Welcome to GROUP6 COMPANY!!!
Which following of service do you like?
Price Calculation for Bread
Bill Payment
2.Cake
Calculation for mass of ingredients to make cake for 1 month
3.Rice
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
4.Dessert
Finance calculation and statement of dessert shop
5.Fruits
Purchasing seeds application
0.Exit
Please enter a number :
```

- 3. Customers just need to enter the number of services that they want to proceed.
- 4. After that, customers just need to follow the instructions inside the service to use it.
- 5. After done using one of the services, the program will ask customers that do you want to continue to other services.

```
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number:
```

6. If customer choose 1 for yes, the program will display again the main menu and ask the number of services they want to proceed.

```
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number: 1
Which following of service do you like?
Price Calculation for Bread
Bill Payment
2.Cake
Calculation for mass of ingredients to make cake for 1 month
3.Rice
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
4.Dessert
Finance calculation and statement of dessert shop
5.Fruits
Purchasing seeds application
0.Exit
Please enter a number:
```

7. Customers also can enter 0 to exit the program.

```
Please enter a number: 0
Are you sure?

Do you want to continue to other food or drink?

1.Yes 2.No
Please enter a number: 2

OK, thank you for using our service, please come again!!!
```

8. At last, if the customer do not want to continue to other services, enter 2 for no and the program display OK, thank you for using our service, please come again!!! and the program end.

3.0 Algorithm

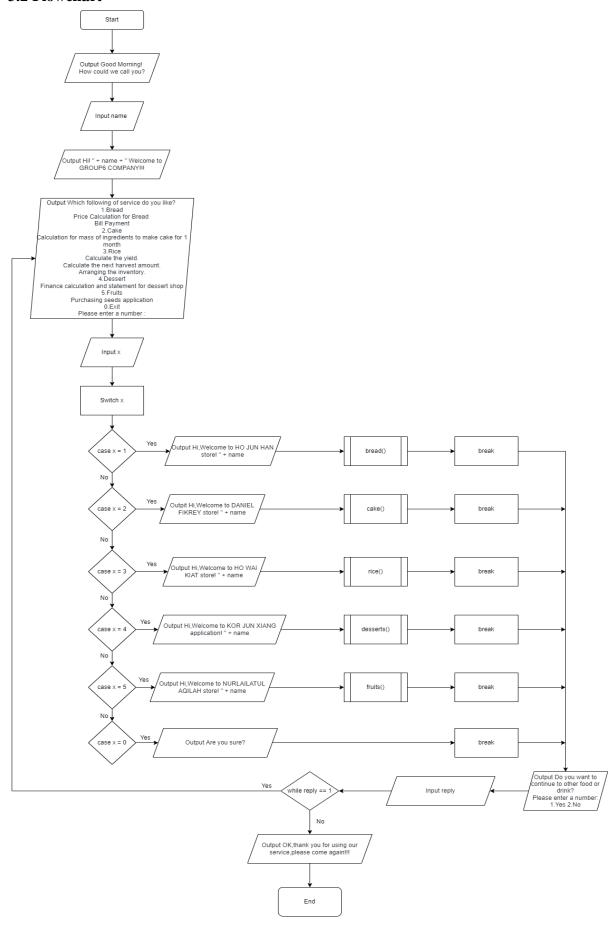
3.1 Pseudocode

Start

```
Output "Good Morning!"
Output "How could we call you?"
Input name
Output "Hi!" + name + " Welcome to GROUP6 COMPANY!!!"
do{
      Output "Which following of service do you like?"
      Output "1. Bread"
      Output "Price Calculation for Bread"
      Output "Bill Payment"
      Output "2. Cake"
      Output "Calculation for mass of ingredients to make cake for 1 month"
      Output "Bill Payment"
      Output "3. Rice"
      Output "Calculate the yield."
      Output "Calculate the next harvest amount."
      Output "Arranging the inventory."
      Output "4. Dessert"
      Output "Finance calculation and statement of dessert shop"
      Output "5. Fruits"
      Output "Purchasing seeds application"
      Output "0. Exit"
      Output "Please enter a number: "
      Input x
      switch (x) {
      case 1:
             Output "Hi, Welcome to HO JUN HAN store! " + name"
             BREAD bread = new BREAD();
      case 2:
             Output "Hi, Welcome to DANIEL FIKREY store! " + name"
             CAKE cake = new CAKE();
      case 3:
             Output "Hi, Welcome to HO WAI KIAT store! " + name"
             RICE rice = new RICE();
      case 4:
             Output "Hi, Welcome to KOR JUN XIANG application! " + name"
             DESSERTS desserts = new DESSERTS();
      case 5:
             Output "Hi, Welcome to NURLAILATUL AQILAH store! " + name"
             FRUITS fruits = new FRUITS();
```

```
case 0:
    Output "Are you sure?"
}
Output "Do you want to continue to other food or drink?"
Output "1.Yes 2.No"
Output "Please enter a number :"
Input reply
}while (reply == 1)
Output "OK,thank you for using our service,please come again!!!"
End
```

3.2 Flowchart



4.0 Coding

4.1 Main Menu

```
package project1;
import java.util.Scanner;
public class Project1 {
            public String name;
            public Project1() {
                // TODO Auto-generated constructor stub
10
110
            public static void main(String[] args) {
                  // TODO Auto-generated method stub
int x;
12
13
14
15
16
                  int reply;
                  String name;
Scanner sc = new Scanner (System.in);
17
18
19
20
                  System.out.println("Good Morning!");
System.out.println("How could we call you?");
name = sc.nextLine();
                  System.out.println("Hi! " + name + " Welcome to GROUP6 COMPANY!!!");
21
22
23
24
25
26
27
                        System.out.println("Which following of service do you like?");
System.out.println("1.Bread");
System.out.println("Price Calculation for Bread");
System.out.println("Bill Payment");
28
29
30
31
32
33
34
35
36
37
38
39
40
                        System.out.println();
                        System.out.println("2.Cake");
System.out.println("Calculation for mass of ingredients to make cake for 1 month");
                        System.out.println();
                        System.out.println("3.Rice");
System.out.println("Calculate the yield.");
System.out.println("Calculate the next harvest amount.");
System.out.println("Arranging the inventory.");
                        System.out.println();
                        System.out.println("4.Dessert");
System.out.println("Finance calculation and statement of dessert shop ");
41
42
43
                         System.out.println();
44
                        System.out.println("5.Fruits");
System.out.println("Purchasing seeds application");
45
46
47
48
49
50
51
52
53
54
55
56
57
58
60
61
62
63
64
65
                        System.out.println();
                        System.out.println("0.Exit");
                        System.out.println("Please enter a number : ");
x = sc.nextInt();
                        switch(x) {
                        System.out.println("Hi,Welcome to HO JUN HAN store! " + name);
BREAD bread = new BREAD();
                         System.out.println();
                        break:
                        System.out.println("Hi, Welcome to DANIEL FIKREY store! " + name);
                        CAKE cake = new CAKE();
System.out.println();
                         break;
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
                        System.out.println("Hi,Welcome to HO WAI KIAT store! " + name);
RICE rice = new RICE();
System.out.println();
                         break;
                        System.out.println("Hi,Welcome to KOR JUN XIANG application! " + name);
DESSERTS desserts = new DESSERTS();
                         System.out.println();
                         break:
                  case 5:
                         System.out.println("Hi, Welcome to NURLAILATUL AQILAH store! " + name);
                        FRUITS fruits = new FRUITS();
System.out.println();
82
                         break;
```

```
case 0:
                    System.out.println("Are you sure?");
 88
                    System.out.println();
 90
 91
                    System.out.println("Do you want to continue to other food or drink?");
System.out.println("1.Yes 2.No");
 92
93
                    System.out.print("Please enter a number: ");
reply = sc.nextInt();
 94
95
 96
97
          }while (reply == 1);
 98
99
              System.out.println("OK,thank you for using our service,please come again!!!");
100
101
102 }
```

4.2 Bread

```
1 package assignment3;
 2*import java.util.Scanner;
 4 public class Bread {
 5
        private static Scanner sc;
 6
 78
        public static void main(String[] args) {
            // TODO Auto-generated method stub
 8
            inputPassword();
 9
10
11
        public static void inputPassword() {
120
            sc = new Scanner(System.in);
13
14
            for(int i=2;i>=0;i--) {
    System.out.print("Enter your password: ");
15
16
                int type = sc.nextInt();
int pass = 12345;
17
18
19
                if(type==pass) {
20
                System.out.println("Your password is correct.");
21
                break;
22
                }else
23
                System.out.print("Your password is wrong! You have "+i+" chance to try again. ");
24
                System.out.println();
25
                if(i==0) {
26
                System.out.print("Sorry, you need to wait for 5 minutes to key in your password again!");
                return;
28
29
30
            String option[] = {"Options to access:","1)Price Calculation for Bread","2)Bill Payment"};
31
            display(option);}
32
330
       public static void display(String[] option) {
            for(int k = 0; k < option.length; k++ ) {
    System.out.println(option[k]);</pre>
34
35
36
            System.out.print("Enter the option that want to access: ");
37
38
            int options = sc.nextInt();
39
            if(options == 1) {
40
                priceCalculation();
41
42
            if(options == 2) {
43
                billPayment();
44
45
46
       }
47
       public static int[] priceCalculation() {
488
49
            double flour, sugar, yeast, egg;
50
            double garlic, chocolate, milk, butter;
            double buttermilk, redbean;
System.out.print("\nEnter price of 1kg flour for one packet: RM");
51
52
53
            flour = sc.nextDouble():
```

```
54
            System.out.print("Enter price of 1kg sugar for one packet: RM");
55
            sugar = sc.nextDouble();
56
            System.out.print("Enter price of egg for one dozen: RM");
            egg = sc.nextDouble();
57
58
            System.out.print("Enter price of 11g yeast for one packet: RM");
            yeast = sc.nextDouble();
59
69
            System.out.print("Enter price of 1Litre milk for one carton: RM");
61
            milk = sc.nextDouble():
            System.out.print("Enter price of 250g butter for one packet: RM");
62
63
            butter = sc.nextDouble();
            System.out.print("Enter price of chocolate for one bar: RM");
64
65
            chocolate = sc.nextDouble();
66
            System.out.print("Enter price of 500g garlic for one bag: RM");
            garlic = sc.nextDouble();
67
            System.out.print("Enter price of 325g buttermilk for one carton: RM");
68
            buttermilk = sc.nextDouble();
69
            System.out.print("Enter price of 300g red bean for one bag: RM");
 70
71
            redbean = sc.nextDouble():
72
            double costCB = 0.125*chocolate + 0.115*flour + 0.0125*sugar + 0.5*egg + 0.19*yeast + 0.045*milk + 0.115*butter;
73
74
            double costGB = 0.1*garlic + 0.10575*flour + 0.0095*sugar + 0.25*egg + 0.17*yeast + 0.0125*milk + 0.112*butter;
            double costBSB = 0.035*buttermilk + 0.1125*flour + 0.01875*sugar + 0.25*egg + 0.185*yeast + 0.14*butter;
 75
76
            double costRBB = 0.1675*redbean + 0.11*flour + 0.015*sugar + 0.25*egg + 0.19*yeast + 0.025*milk + 0.08*butter;
 77
            System.out.printf("\nCost of chocolate breads is: RM%.2f", costCB);
78
79
            System.out.println();
 80
            System.out.printf("Cost of garlic bread is: RM%.2f" , costGB);
 81
            System.out.println();
            System.out.printf("Cost of butter sugar bread is: RM%.2f" , costBSB);
 87
 83
            System.out.println();
            System.out.printf("Cost of red bean bread is: RM%.2f" , costRBB);
 84
 85
            System.out.println();
 86
            double priceCB = (costCB*1.2);
 87
            double priceGB = (costGB*1.35);
 88
            double priceBSB = (costBSB*1.35);
 89
 98
            double priceRBB = (costRBB*1.3);
 91
 92
            System.out.printf("\nPrice of chocolate bread is: RM%.2f", priceCB);
            System.out.println();
            System.out.printf("Price of garlic bread is: RM%.2f" , priceGB);
 94
 95
            System.out.println();
96
            System.out.printf("Price of butter sugar bread is: RM%.2f" , priceBSB);
97
            System.out.println():
            System.out.printf("Price of red bean bread is: RM%.2f" , priceRBB);
98
99
            return null;
100
101
        public static int[] billPayment() {
1028
103
            int card, member;
104
            double ChocolateBread = 6.12;
105
            double GarlicBread = 4.11:
106
            double ButterSugarBread = 4.12;
107
            double RedBeanBread = 4.52;
            int a,b,c,d;
108
            double total; double totalprice = 0;
110
            double price[] = {6.12,4.11,4.12,4.52};
            String bread[] = {"Chocolate bread", "Garlic bread", "Butter sugar bread", "Red bean bread"};
111
112
113
            System.out.println();
            System.out.println(bread[0] + ": RM" + price[0]);
114
            System.out.println(bread[1] + ": RM" + price[1]);
System.out.println(bread[2] + ": RM" + price[2]);
115
116
            System.out.println(bread[3] + ": RM" + price[3]);
117
118
            System.out.println("\nDo you have membership card?");
System.out.println("0 = NO");
119
120
            System.out.println("1 = YES");
121
127
            System.out.print("Enter number: ");
123
            card = sc.nextInt();
124
125
            if(card == 1) {
                System.out.print("Enter the membership card number: ");
126
127
                member = sc.nextInt():
128
            System.out.print("\nQuantity of chocolate bread: " );
129
130
            a = sc.nextInt();
            System.out.print("Quantity of garlic bread: ");
131
```

```
b = sc.nextInt();
System.out.print("Quantity of butter sugar bread: ");
132
133
              c = sc.nextInt();
System.out.print("Quantity of red bean bread: ");
134
135
136
              d = sc.nextInt();
              total = a*ChocolateBread + b*GarlicBread + c*ButterSugarBread + d*RedBeanBread;
137
138
139
              if(card == 0) {
140
                   totalprice = a*ChocolateBread + b*GarlicBread + c*ButterSugarBread + d*RedBeanBread;
                   System.out.printf("\nPrice to be paid: RM%.2f%n" , totalprice);
141
142
143
144
              if(card == 1) {
145
                   double discountreceived = (total*0.1);
                   totalprice = total - discountreceived;
146
                   System.out.println();
147
                   System.out.printf("Total price : RM%.2f%n" , total);
System.out.printf("Discount received: RM%.2f%n" , discountreceived);
System.out.printf("Price to be paid : RM%.2f%n" , totalprice);
148
149
150
151
              System.out.print("\nAmount received: RM");
152
153
              double amount = sc.nextDouble();
154
              double change = amount - totalprice;
                                                      : RM%.2f" , change);
155
              System.out.printf("Change
156
              return null;
157
              }
       }
158
```

4.3 Cake

```
package Assignment_3;
   import java.util.Scanner;
   public class cake3 {
 4
 50
        public static void main(String[] args) {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
8
            System.out.println("*
9
            System.out.println("*
            System.out.println("*
10
            System.out.println(" * *
System.out.println(" * *
11
12
13
14
            System.out.println();
15
            System.out.println("
16
            System.out.println("
17
            System.out.println("
18
            System.out.println("
19
20
            System.out.println("
            System.out.println("
21
            System.out.println("
System.out.println("
22
23
24
            System.out.println("
                                                      * * * * * * * * * * * * * * * * * *
25
            System.out.println("
26
27
            System.out.println();
28
29
            showMessage();
30
            System.out.println();
31
32
            int num, i = 0, total = 0, average;
33
            int num_ingre, num_s;
            int receive, stay;
double sum, cake_m;
String month;
34
35
36
37
38
             int [] sale = new int [7];
39
40
              showMessage2();
41
             total = sumSales(sale);
42
43
```

```
44
45
46
          System.out.println("*
                              The total of cake sale for one week is " + total + "
47
          average = total /7;
System.out.println("* The average of number cake sale for one day is " + average + " *");

*");

*");
48
49
          50
 51
 52
 53
          System.out.println();
 54
          System.out.print("Please enter the number of your ingredients : ");
 55
56
          num_ingre = sc.nextInt();
          57
58
59
60
          String [] ingredient = new String[num_ingre];
61
          double [] mass = new double [num_ingre];
          double [] stock = new double [num_ingre];
62
          double [] total_ing = new double [num_ingre];
63
64
          double [] last = new double [num_ingre];
65
          double [] new_mass = new double [num_ingre];
66
67
68
          System.out.println();
69
70
          System.out.println("Please enter your ingredients :");
 71
 72
          for(int j = 0; j < num_ingre; j++) {</pre>
 73
 74
             System.out.print("* ");
 75
             ingredient[j] = sc.next();
          }
76
77
 78
          System.out.println();
 79
          80
          System.out.println();
81
          showMessage3();
82
83
          for(int k = 0; k < num_ingre; k++) {</pre>
              System.out.print(ingredient[k] + " : ");
85
86
              mass[k] = sc.nextDouble();
87
88
89
          System.out.println();
          91
92
          System.out.println();
93
          showMessage4();
94
          for(int 1 = 0; 1 < num_ingre; 1++) {</pre>
95
              System.out.print(ingredient[1] + " : ");
96
97
              stock[1] = sc.nextDouble();
98
99
100
          cake_m = average * 30;
101
102
          for(int m = 0; m < num_ingre; m++) {</pre>
103
104
              total_ing[m] = mass[m] * cake_m;
105
106
107
          for(int n = 0; n < num_ingre; n++) {</pre>
108
              last[n] = total_ing[n] - stock[n];
109
110
111
          System.out.println();
112
```

```
System.out.println("********************************);
113
114
115
             System.out.println("
                                        The results
                                                            ");;
116
117
             for(int o = 0; o < num_ingre; o++) {</pre>
                 System.out.println(" " + ingredient[o] + " : " + last[o] + " kg ");
118
119
             .
System.out.println("*******************************);
120
             System.out.println();
121
122
123
             showMessage5();
124
             num_s = sc.nextInt();
125
126
             System.out.println();
127
128
             if(num_s > 0) {
                 for(int p = 0; p < num_ingre; p++) {</pre>
129
                      System.out.println(ingredient[p] + " : " + last[p] + " kg");
130
131
                      System.out.print("Enter new mass or number of " + ingredient[p] + " in kg = ");
132
                      new_mass[p] = sc.nextDouble();
133
134
                      System.out.println();
                 }
135
136
137
                 System.out.println();
System.out.println("*************************);
138
                 System.out.println("The new mass of ingredients: ");
139
140
                 for(int q = 0; q < num ingre; q++ ) {</pre>
                    System.out.println(ingredient[q] + " = " + new_mass[q] + " kg");
141
142
143
144
             else {
                 System.out.println("****************************);
145
146
                 for(int r = 0; r < num_ingre; r++) {</pre>
147
                      System.out.println(ingredient[r] + " : " + last[r]);
148
                 }
149
             }
150
            System.out.println();
151
                                  **********
152
            System.out.println("
153
            System.out.println();
            System.out.println("Thank you for using our service");
154
155
        public static int sumSales(int[] cake) {
1569
            int total = 0;
157
            for(int z = 0; z < cake.length; z++ ) {</pre>
158
                Scanner sc = new Scanner(System.in);
159
                System.out.print("Sales :
160
                cake[z] = sc .nextInt();
total = total + cake[z];}
161
162
163
164
            return total;
165
166⊜
        public static void showMessage() {
            System.out.println("This Programme Will Calculate The Mass or Number of Ingredients for 1 Month");
167
168
169⊜
        public static void showMessage2() {
            System.out.println("Please enter the number of sale of the cake day by day in one week :");
170
171
172
173⊝
        public static void showMessage3() {
174
            System.out.println("Please enter the mass of each ingredient to make one cake : ");
175
176⊜
        public static void showMessage4() {
177
            System.out.println("Please enter the mass of remaining stock of each ingredients :");
178
        public static void showMessage5() {
179⊜
180
            System.out.println("Do you want to add more the ingredient???");
181
            System.out.println("If you want to add more the amount of the ingredient , please enter 1");
182
            System.out.println("If you want to stay with the amount of the ingredient, please enter 0");
183
184
185 }
```

4.4 Rice

```
package rice;
import java.util.Scanner;
public class RICE3 {
    public RICE3() {
        // TODO Auto-generated constructor stub
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int x,y;
        double a,b,c,d,e,f;
        int p,q,r,s;
        int percentage:
       int i = 1;
       double a1,b1,c1,d1,e1,f1;
        double sum1,sum2,sum3,sum4,sum5,sum6,sum7,sum8,sum9,sum10,sum11,sum12;
        double[][]rice = new double[6][3];
        double[][]rice1 = new double[6][3];
        double[][]sum = new double[6][3];
        int service;
        Scanner sc = new Scanner (System.in);
        do {
        System.out.println("Hi,what service do you need?");
        System.out.println("1:Calculate the yield.");
        System.out.println("2:Calculate the next harvest amount.");
System.out.println("3:Arranging the inventory.");
 System.out.println("0:Exit.");
 System.out.print("Please enter the number : ");
 x = sc.nextInt();
 System.out.println();
 if(x == 1) {
 System.out.println("Please enter the weight in sample unit(kg/10m2)");
 System.out.println("Enter the weight of Black rice:");
 a = sc.nextDouble();
 System.out.println("Enter the weight of Jasmine rice:");
 b = sc.nextDouble();
 System.out.println("Enter the weight of Brown rice:");
 c = sc.nextDouble();
 System.out.println("Enter the weight of Red Cargo rice:");
 d = sc.nextDouble();
 System.out.println("Enter the weight of Sticky rice:");
 e = sc.nextDouble();
 System.out.println("Enter the weight of Long grain white rice:");
 f = sc.nextDouble();
 System.out.println("Please enter the area of the farm of each type of rice (hectare)");
 System.out.println("Enter the area of Black rice farm:");
 a1 = sc.nextDouble();
 System.out.println("Enter the area of Jasmine rice farm:");
 b1 = sc.nextDouble();
 System.out.println("Enter the area of Brown rice farm:");
```

```
c1 = sc.nextDouble();
System.out.println("Enter the area of Red Cargo rice farm:");
d1 = sc.nextDouble();
System.out.println("Enter the area of Sticky rice farm:");
e1 = sc.nextDouble():
System.out.println("Enter the area of Long grain white rice farm:");
f1 = sc.nextDouble();
System.out.println();
sum1 = (a*1000) * a1;
sum2 = (b*1000) * b1;
sum3 = (c*1000) * c1;
sum4 = (d*1000) * d1;
sum5 = (e*1000) * e1;
sum6 = (f*1000) * f1;
System.out.println("The formula of kg/ha is kg/10m2 x 1000 = kg/ha*");
System.out.println("*The formula of kg is kg/ha x hectare = kg *");
System.out.println("*The yield of each type of rice in kg *");
System.out.println("*****
System.out.println();
System.out.printf("%-7s%3.2f%2s%n","Black rice :" , sum1 , "kg"); System.out.printf("%-7s%3.2f%2s%n","Jasmine rice :" , sum2 , "kg"); System.out.printf("%-7s%3.2f%2s%n","Brown rice :" , sum3 , "kg");
System.out.printf("%-7s%3.2f%2s%n","Red Cargo rice :" , sum4 , "kg");
System.out.printf("%-7s%3.2f%2s%n","Sticky rice :" , sum5 , "kg");
System.out.printf("%-7s%3.2f%2s%n","Long grain white rice :" , sum6 , "kg");
System.out.println();
 sum7 = sum1 * 2.2;
 sum8 = sum2 * 2.2;
sum9 = sum3 * 2.2;
 sum10 = sum4 * 2.2;
 sum11 = sum5 * 2.2;
sum12 = sum6 * 2.2;
 System.out.println("*The formula of 1 kg/ha is 2.2lbs/ha *");
System.out.println();
System.out.printf("%-7s%3.2f%2s%n","Black rice :" , sum7 , "lbs");
System.out.printf("%-7s%3.2f%2s%n","Jasmine rice :" , sum8 , "lbs");
System.out.printf("%-7s%3.2f%2s%n","Brown rice :" , sum9 , "lbs");
System.out.printf("%-7s%3.2f%2s%n","Red Cargo rice :" , sum10 , "lbs");
System.out.printf("%-7s%3.2f%2s%n","Sticky rice :" , sum11 , "lbs");
System.out.printf("%-7s%3.2f%2s%n","Long grain white rice :" , sum12 , "lbs");}
else if(x == 2) {
System.out.println("Please enter the current yield of Black rice(kg/ha)");
a = sc.nextDouble();
```

```
System.out.println("Please enter the current yield of Jasmine rice(kg/ha)");
     b = sc.nextDouble();
     System.out.println("Please enter the current yield of Brown rice(kg/ha)");
     c = sc.nextDouble():
     System.out.println("Please enter the current yield of Red Cargo rice(kg/ha)");
     d = sc.nextDouble();
     System.out.println("Please enter the current yield of Sticky rice(kg/ha)");
     e = sc.nextDouble():
     System.out.println("Please enter the current yield of Long grain white rice(kg/ha)");
     f = sc.nextDouble();
             System.out.println("Please select the percentage by following type of factors");
             System.out.println("Climate");
            System.out.println("Spring: +10%");
System.out.println("Summer: +10%");
System.out.println("Autumn: -10%");
             System.out.println("Winter: +5%");
             System.out.println("Enter the percentage(%)");
             p = sc.nextInt();;
             System.out.println("Government policy");
System.out.println("Tax: -5%");
             System.out.println("Allowance: +10%");
             System.out.println("Enter the percentage(%)");
             q = sc.nextInt();
        System.out.println("Human Resources");
       System.out.println("Enough: +10%");
       System.out.println("Lack: -10%");
System.out.println("Enter the percentage(%)");
       r = sc.nextInt();
       System.out.println("Cost of production");
System.out.println("Increase: -5%");
System.out.println("Decrease: +5%");
       System.out.println("Enter the percentage(%)");
        s = sc.nextInt();
percentage = p+q+r+s;
switch(percentage) {
switch(percentage) {
case 5 : System.out.println("The next harvest amount of each of the rice");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the black rice:",(a * 1.05),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Jasmine rice:",(b * 1.05), "kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Brown rice:",(c * 1.05),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Red Cargo rice:",(d * 1.05),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Sticky rice:",(e * 1.05),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.05),"kg/ha");
    break:
break:
case 10 : System.out.println("The next harvest amount of each of the rice");
                 System.out.println("The next harvest amount of each of the rice");
System.out.printf("%-7s%3.2f%2s%n","The amount of the black rice:",(a * 1.10),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Jasmine rice:",(b * 1.10), "kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Brown rice:",(c * 1.10),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Red Cargo rice:",(d * 1.10),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Sticky rice:",(e * 1.10),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.10),"kg/ha");
break;
```

```
case 15 : System.out.println("The next harvest amount of each of the rice");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the black rice:",(a * 1.15),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Jasmine rice:",(b * 1.15),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Brown rice:",(c * 1.15),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Red Cargo rice:",(d * 1.15),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Sticky rice:",(e * 1.15),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.15),"kg/ha");
    System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.15),"kg/ha");
 break:
 case 20 : System.out.println("The next harvest amount of each of the rice");
                              System.out.printin( The next narvest amount of each of the rice );
System.out.printf("%-7s%3.2f%2s%n","The amount of the black rice:",(a * 1.20),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Jasmine rice:",(b * 1.20),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Brown rice:",(c * 1.20),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Red Cargo rice:",(d * 1.20),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Sticky rice:",(e * 1.20),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.20),"kg/ha");
 break:
 case 25 : System.out.println("The next harvest amount of each of the rice");
                              System.out.printin( The next narvest amount of each of the rice );
System.out.printf("%-7s%3.2f%2s%n","The amount of the black rice:",(a * 1.25),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Jasmine rice:",(b * 1.25),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Brown rice:",(c * 1.25),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Red Cargo rice:",(d * 1.25),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Sticky rice:",(e * 1.25),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.25),"kg/ha");
 hreak.
 case 30 : System.out.println("The next harvest amount of each of the rice");
                               System.out.printIn( The next narvest amount of teach of the rice;), (a * 1.30), "kg/ha"); System.out.printf("%-75%3.2f%25%n", "The amount of the black rice:",(a * 1.30), "kg/ha"); System.out.printf("%-75%3.2f%25%n", "The amount of the Brown rice:",(a * 1.30), "kg/ha"); System.out.printf("%-75%3.2f%25%n", "The amount of the Red Cargo rice:",(a * 1.30), "kg/ha"); System.out.printf("%-75%3.2f%25%n", "The amount of the Sticky rice:",(a * 1.30), "kg/ha"); System.out.printf("%-75%3.2f%25%n", "The amount of the Sticky rice:",(a * 1.30), "kg/ha");
                                 System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.30),"kg/ha");
  break:
   case 35 : System.out.println("The next harvest amount of each of the rice");
                                System.out.println("he next harvest amount of each of the rice);
System.out.println("%-7s%3.2f%2s%n","The amount of the black rice:",(a * 1.35),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Jasmine rice:",(b * 1.35),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Brown rice:",(c * 1.35),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Red Cargo rice:",(d * 1.35),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Sticky rice:",(e * 1.35),"kg/ha");
System.out.printf("%-7s%3.2f%2s%n","The amount of the Long grain white rice:",(f * 1.35),"kg/ha");
  break:
  default : System.out.println("You are something wrong.");}}
  else if(x == 3) {
              do
               {
                           System.out.println("Select an SERVICE : ");
                          System.out.println("1. ENTER THE INITIAL INVENTORY.");
System.out.println("2. ENTER THE CURRENT INVENTORY.");
                          System.out.println("3. CALCULATE THE FINAL INVENTORY.");
System.out.println("4. CHECKING THE INVENTORY OF THE RICE");
                           System.out.println("0.BACK");
                           System.out.print("Enter a number : ");
                           service = sc.nextInt();
                          System.out.println();
                           switch (service)
                                       case 0:
                                                   System.out.println();
                                                   break:
```

```
case 1:
     System.out.println("Please enter the initial inventory(kg/ha) in this order.");
     System.out.println("1.Black rice(GRADE A)");
System.out.println("2.Black rice(GRADE B)");
     System.out.println("3.Black rice(GRADE C)");
System.out.println("4.Jasmine rice(GRADE A)"
     System.out.println("5.Jasmine rice(GRADE B)");
     System.out.println("6.Jasmine rice(GRADE C)");
System.out.println("7.Brown rice(GRADE A)");
     System.out.println("8.Brown rice(GRADE B)");
     System.out.println("9.Brown rice(GRADE C)");
System.out.println("10.Red Cargo rice(GRADE A)");
     System.out.println("11.Red Cargo rice(GRADE B)");
     System.out.println("12.Red Cargo rice(GRADE C)");
System.out.println("13.Sticky rice(GRADE A)");
     System.out.println("14.Sticky rice(GRADE B)");
     System.out.println("15.Sticky rice(GRADE C)");
System.out.println("16.Long grain white rice(GRADE A)");
     System.out.println("17.Long grain white rice(GRADE B)");
     System.out.println("18.Long grain white rice(GRADE C)");
     inputArray(rice);
     System.out.println();
     break;
case 2:
     System.out.println("Please enter the current inventory(kg/ha) in this order.");
     System.out.println("1.Black rice(GRADE A)");
     System.out.println("2.Black rice(GRADE B)");
System.out.println("3.Black rice(GRADE C)");
     System.out.println("4.Jasmine rice(GRADE A)");
     System.out.println("5.Jasmine rice(GRADE B)");
System.out.println("6.Jasmine rice(GRADE C)");
     System.out.println("7.Brown rice(GRADE A)");
       System.out.println("8.Brown rice(GRADE B)");
System.out.println("9.Brown rice(GRADE C)");
       System.out.println("10.Red Cargo rice(GRADE A)");
       System.out.println("11.Red Cargo rice(GRADE B)");
System.out.println("12.Red Cargo rice(GRADE C)");
       System.out.println("13.Sticky rice(GRADE A)");
System.out.println("14.Sticky rice(GRADE B)");
        System.out.println("15.Sticky rice(GRADE C)");
        System.out.println("16.Long grain white rice(GRADE A)");
        System.out.println("17.Long grain white rice(GRADE B)");
       System.out.println("18.Long grain white rice(GRADE C)");
        inputArray1(rice1);
        System.out.println();
        break;
         System.out.println("The final inventory(kg/ha). ");
         {for(int i1=0;i1<6;i1++){
         for(int j=0;j<3;j++){
              sum[i1][j]=rice[i1][j]+rice1[i1][j];
              }}}
       printArray(sum);
        System.out.println();
       break:
   case 4:
        System.out.println("Please enter the number of the rice you want to check.");
        System.out.println("1.Black rice(GRADE A)");
       System.out.println("2.Black rice(GRADE B)");
System.out.println("3.Black rice(GRADE C)");
System.out.println("4.Jasmine rice(GRADE A)");
       System.out.println("5.Jasmine rice(GRADE B)");
```

```
System.out.println("6.Jasmine rice(GRADE C)");
     System.out.println("7.Brown rice(GRADE A)");
System.out.println("8.Brown rice(GRADE B)");
System.out.println("9.Brown rice(GRADE C)");
     System.out.println("10.Red Cargo rice(GRADE A)");
System.out.println("11.Red Cargo rice(GRADE B)");
System.out.println("12.Red Cargo rice(GRADE C)");
     System.out.println("13.Sticky rice(GRADE A)");
System.out.println("14.Sticky rice(GRADE B)");
System.out.println("15.Sticky rice(GRADE C)");
     System.out.println("16.Long grain white rice(GRADE A)");
System.out.println("17.Long grain white rice(GRADE B)");
System.out.println("18.Long grain white rice(GRADE C)");
     System.out.print("Enter integer between 1-18 : ");
     int z = sc.nextInt();
     System.out.println();
     switch (z) {
case 1:
     System.out.print("Black rice(GRADE A) : ");
     search(sum, 0,0);
     System.out.println();
     break;
case 2:
     System.out.print("Black rice(GRADE B) : ");
     search(sum, 0,1);
     System.out.println();
     break;
case 3:
     System.out.print("Black rice(GRADE C) : ");
      search(sum, 0,2);
            System.out.println();
           break:
      case 4:
            System.out.print("Jasmine rice(GRADE A) : ");
            search(sum, 1,0);
           System.out.println();
           break;
      case 5:
           System.out.print("Jasmine rice(GRADE B) : ");
           search(sum, 1,1);
System.out.println();
           break;
      case 6:
           System.out.print("Jasmine rice(GRADE C) : ");
           search(sum, 1,2);
System.out.println();
           break;
           System.out.print("Brown rice(GRADE A) : ");
            search(sum, 2,0);
           System.out.println();
           break;
      case 8:
           System.out.print("Brown rice(GRADE B) : ");
            search(sum, 2,1);
            System.out.println();
           break;
```

```
case 9:
      System.out.print("Brown rice(GRADE C) : ");
      search(sum, 2,2);
      System.out.println();
      break;
  case 10 :
      System.out.print("Red Cargo rice(GRADE A) : ");
      search(sum, 3,0);
      System.out.println();
      break;
  case 11 :
      System.out.print("Red Cargo rice(GRADE B) : ");
      search(sum, 3,1);
      System.out.println();
      break;
  case 12 :
      System.out.print("Red Cargo rice(GRADE C) : ");
      search(sum, 3,2);
      System.out.println();
      break;
  case 13 :
      System.out.print("Sticky rice(GRADE A) : ");
      search(sum, 4,0);
System.out.println();
      break;
  case 14 :
      System.out.print("Sticky rice(GRADE B) : ");
      search(sum, 4,1);
      System.out.println();
    break;
case 15 :
    System.out.print("Sticky rice(GRADE C) : ");
    search(sum, 4,2);
    System.out.println();
   break;
case 16 :
   System.out.print("Long grain white rice(GRADE A) : ");
    search(sum, 5,0);
    System.out.println();
    break;
case 17 :
   System.out.print("Long grain white rice(GRADE B) : ");
    search(sum, 5,1);
    System.out.println();
   break;
case 18 :
   System.out.print("Long grain white rice(GRADE C) : ");
    search(sum, 5,2);
   System.out.println();
    break:
    break;
default:
    System.out.println("What'wrong with you?Enter a proper number!");
    System.out.println();
    break;
```

```
}
      } while (service == 1|| service == 2|| service == 3|| service == 4);
else if((x != 1) && (x != 2) && (x != 3) && (x != 0)) {
      System.out.println("Enter a proper number!");
else {//exit
      for (y=1; y<4; y++) {
         if (y == 1) {
               System.out.println("ok,you're exit.");
         }else if (y==2) {
               System.out.println("Thank you by using our service.");
               System.out.println("Goodbye!");
         }i++;
         }
 System.out.println();
}while(i<3);</pre>
public static void inputArray(double[][] number){
        int row;
        int col;
        Scanner input = new Scanner (System.in);
        for (row = 0; row < number.length; row++)
              for (col = 0; col < number[row].length; col++)</pre>
               number[row][col] = input.nextInt();
public static void inputArray1(double[][] number){
        int row;
        int col:
        Scanner input = new Scanner (System.in);
        for (row = 0; row < number.length; row++)</pre>
              for (col = 0; col < number[row].length; col++)
               number[row][col] = input.nextInt();
public static void printArray(double[][] number){
     System.out.println("1.Black rice(GRADE A) :
                                                                     + number[0][0] + " kg/ha");
     System.out.println("2.Black rice(GRADE B) :
System.out.println("3.Black rice(GRADE C) :
                                                                   " + number[0][1] + " kg/ha");
     System.out.println("3.Black rice(GRADE C): " + number[0][2] + " kg/ha");
System.out.println("4.Jasmine rice(GRADE A): " + number[1][0] + " kg/ha");
System.out.println("5.Jasmine rice(GRADE B): " + number[1][1] + " kg/ha");
     System.out.println("6.Jasmine rice(GRADE C): " + number[1][2] + " kg/ha");
     System.out.println("7.Brown rice(GRADE A) :
System.out.println("8.Brown rice(GRADE B) :
                                                                    " + number[2][0] + " kg/ha");
                                                                   " + number[2][1] + " kg/ha");
     System.out.println("9.Brown rice(GRADE C): " + number[2][2] + " kg/ha");
System.out.println("10.Red Cargo rice(GRADE A): " + number[3][0] + " kg/ha");
                                                                   " + number[2][2] + " kg/ha");
     System.out.println("11.Red Cargo rice(GRADE B) : " + number[3][1] + " kg/ha");
     System.out.println("11.Red Cargo rice(GRADE B) : " + number[3][1] + " kg/ha");
System.out.println("12.Red Cargo rice(GRADE C) : " + number[3][2] + " kg/ha");
System.out.println("13.Sticky rice(GRADE A) : " + number[4][0] + " kg/ha");
System.out.println("14.Sticky rice(GRADE B) : " + number[4][1] + " kg/ha");
System.out.println("15.Sticky rice(GRADE C) : " + number[4][2] + " kg/ha");
```

4.5 Desserts

```
package project1;
import java.util.Scanner;
public class DESSERTS {
                                                      lic DESSERTS() {
// TODO Auto-generated constructor stub
Scanner sc = new Scanner(system.in);
int range;
System.out.print("Enter how many types of desserts you sell in your store: ");
range = sc.nextInt();
String [] dessert = new String [range];
double [] price = new double [range];
double [] price = new double [range];
int [] quantity = new int [range];
double [] double []
                                   public DESSERTS() {
public static void display1(String[]dessert, double[]price, double[]cost, int[]quantity, double[]gross, double totalcts, double totalgrs, double totalsls) {
    Scanner sc = new Scanner(System.in);
    double income = 0;
    double totalothercosts = 0;
    totalcts = 0;
    totalcts = 0;
    totalcts = 0;
    totalcts = 0;
    totalsls = 0;
    System.out.println("Enter the "*dessert.length*" type of desserts :");
                                                                        for(int x=0; x<dessert.length; x++) {
  dessert[x] = sc.nextLine();</pre>
                                                                            }
System.out.println();
                                                                        for(int x=0; xdessert.length; x=+) {
    System.out.print('Price of the "+dessert[x]+" : RM");
    price[x] = sc.nextDobale();
    System.out.print('Cost of ingredients of the "+dessert[x]+" : RM");
    cost[x] = sc.nextDobale();
    System.out.print('Quantity of the "+dessert[x]+" sold : ");
    system.out.print('Quantity of the "+dessert[x]+" sold : ");
    System.out.println();
}
                                                                          for(int x=0; x<dessert.length; x++) {
   gross[x] = price[x] - cost[x];</pre>
                                                                          for(int x=0; x<dessert.length; x++) {
  totalcts += quantity[x] * cost[x];
  totalgrs += quantity[x] * gross[x];
  totalsls += quantity[x] * price[x];</pre>
                                                                          }
totalothercosts = display2(totalothercosts);
income = totalgrs-totalothercosts;
income = totalgrs-totalothercosts;
displayDescript(descert, price, quantity, cost, gross);
System.out.println();
displayFinancialStotement(totals, totalcts, totalgrs, totalothercosts, income);
System.out.println();
System.out.println();
System.out.println();
                                                      public static double display2(double totalotr) {
    Scanner sc = new Scanner(System.in);
    char reply]oyee;
    double employeesalory, totalsalary, rent, utilities, transport;
    totalotr = 0;
    System.out.println("Have you hired staff? (Yes or No)");
    reply = sc.next().charAt(0);
                                                                        if(reply == 'Y' || reply == 'Y') {
    System.out.print("Enter the number of employees you hired : ");
    numbereemployee = sc.nextInt();
    System.out.print("Enter the employee salary : RM");
    employeesalary = sc.nextDouble();
    totalsalary = 0;
                                                                                                for(int x=0 ; x<numberemployee ; x++) {
   totalsalary += employeesalary;</pre>
                                                                                                }
System.out.print("Enter the rent payment per month : RM");
```

```
rent = sc.nestDouble();
System.out.print("State the utilities fee for this month: RM");
utilities = sc.nestDouble();
System.out.print("State the transport fee for this month: RM");
by system.out.print("State the transport fee for this month: RM");
by system.out.print("State the transport fee for this month: RM");
by system.out.print("State the utilities * transport;

} also system.out.print("State the utilities for this month: RM");

yether out.print("System.out.print("System.out.print("State the utilities for this month: RM");

yether out.print("System.out.print("System.out.print("State the utilities for this month: RM");

yether out.print("System.out.print("System.out.print("State the utilities for this month: RM");

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```

4.6 Fruits

```
package taskThree;
    import java.util.Scanner;
public class FRUITS3 {
 50
         public static void main(String[] args) {
              // TODO Auto-generated method stub
            Scanner scan = new Scanner (System.in);
              String name;
String address;
10
11
12
              String gender;
              int age;
String fruit, fruit2;
13
14
              int weight, weight2;
int amount, amount2;
15
16
              int price1 , price2;
int finalprice, finalprice2;
17
18
              int total;
String member;
char choice;
19
20
21
22
              int finaltotal;
              int discountreceived;
23
24
              int delivery;
25
              int method;
26
27
              System.out.print("Please enter your name : ");
28
              name = scan.nextLine();
29
30
              System.out.print("Please enter your state : ");
31
              address = scan.next();
32
              System.out.print("Please enter your gender : ");
33
              gender = scan.next();
```

28

```
36
           System.out.print("Please enter your age : ");
37
           age = scan.nextInt();
38
39
           System.out.println();
40
           System.out.print("Welcome to the Green Eagle Seed Application," + name );
41
42
43
           System.out.println();
44
           System.out.println();
45
           System.out.println("You have a notification from the application !");
47
           showNotification(name);
48
           System.out.println("* * * * * * * * * * * * * *");
49
50
51
           System.out.println("MENU");
52
                                              *" + " Price (200g) " + "*" + " Price (500g) ");
           System.out.println("Type of seed
53
54
           System.out.println("
           System.out.println("Apple
                                              *" + "
                                                                " + "*" + "
55
                                                       RM60
                                                                             RM110
                                                                                        ');
           System.out.println("Premium.Apple
System.out.println("Strawberry
                                              *" + "
                                                                " + "*" + "
                                                       RM70
                                                                             RM120
56
                                                                                        ');
                                                                   "*" +
                                              *" + "
57
                                                       RM80
                                                                             RM150
                                                                " + "*" + "
58
           System.out.println("Premium.Strawberry*" + "
                                                       RM90
                                                                             RM160
           System.out.println("Grape
                                                       RM50
                                                                             RM100
                                                                " + "*" + "
                                              *" + "
           System.out.println("Premium.Grape
                                                       RM60
                                                                             RM110
61
           System.out.println("Orange
                                                       RM45
                                                                              RM90
           62
                                                       RM55
                                                                             RM100
63
64
65
           System.out.println();
66
           {\tt System.} \textit{out.} {\tt print("Please enter the type of seed you want to buy : ");}
67
68
           fruit = scan.next();
70
              System.out.print("Choose either 200g or 500g : " );
71
              weight = scan.nextInt();
 72
 73
              System.out.print("Enter the price of seed you want to buy : RM");
 74
              price1 = scan.nextInt();
 75
 76
              System.out.print("How many bag of seed you want to buy ? : ");
 77
              amount = scan.nextInt();
 78
 79
              finalprice = price1 * amount;
 80
              System.out.println("* * * * * * * * ");
 81
82
 83
              System.out.print("Please enter the second type of seed you want : ");
 84
              fruit2 = scan.next();
85
86
              System.out.print("Choose either 200g or 500g : ");
87
              weight2 = scan.nextInt();
88
89
              System.out.print("Enter the price of seed you want to buy : RM");
90
              price2 = scan.nextInt();
91
              System.out.print("How many bag of seed you want to buy ? : ");
92
93
              amount2 = scan.nextInt();
94
95
              finalprice2 = price2 * amount2;
96
97
              total = finalprice + finalprice2;
98
99
              System.out.println();
                                      * * * * * * * * ");
              System.out.println("
100
101
```

```
103
             System.out.print("Enter the number of seed types you want to buy: ");
104
             int seed = scan.nextInt();
105
             String [] seedType = new String [seed];
106
             for ( int a = 0; a < seed; a++) {
107
                 System.out.println ("Enter the " + (a + 1 ) + " name :");
108
109
                 seedType[a] = scan.next();
110
111
             System.out.println("The seeds you want to buy are : ");
112
113
             for ( String b : seedType) {
114
115
                 System.out.println(b);
 116
117
118
             System.out.println("The total price of your products : RM" + total);
119
120
             System.out.println("* * * * * * * * ");
121
 122
             System.out.println();
             123
124
125
             System.out.println("These are only for users' information.");
126
127
 128
             int [] list1 = {60,70,80,90,50,60,45,55};
129
             int sum, expensive;
130
131
             sum = sumArray(list1);
             System.out.println("The total price of 200g seeds are : RM" + sum);
132
133
134
             expensive = indexExpensive(list1);
             135
136
137
          138
139
140
141
          int [] list2 = {110,120,150,160,100,110,90,100};
142
          int sum2;
          int expensive2;
143
144
          sum2 = sumArray2 (list2);
System.out.println("The total price of 500g seeds are : RM" + sum2);
145
146
147
148
           expensive2 = indexExpensive2(list2);
          149
151
          System.out.println("Are you a member ?");
System.out.println("Enter 'Y' if you are a member. \nEnter 'N' if you are not a member.");
152
153
154
           member = scan.next();
          choice = member.charAt(0):
155
156
157
           if (choice == 'N') {
              System.out.println("Do you want to be a member ?");
System.out.println("Enter 'A' if you want to be a member. \nEnter 'B' if you do not want to be a member.");
member = scan.next();
158
159
160
161
              choice = member.charAt(0);
162
          1
163
164
          if (choice == 'A')
165
             System.out.println("Your member's name is " + name);
166
168
              System.out.println("You will not get any benefits.");
169
```

```
171
                  System.out.println("You already a member. ");
172
173
174
             System.out.println();
    System.out.println("If you are a member, you will get benefits like down below:");
System.out.print("You will get a RM5 off voucher for next purchase for minimum spending RM100. \nIf you are spending RM300 and above, you will get a RM10 off for next purchase, a free tool and free delivery.");
175
176
178
             System.out.println();
179
             System.out.println();
180
             System.out.println("You can choose the method of paying.");
System.out.println("Enter [1] for online banking. \nEnter [2] for cash on delivery.");
System.out.print("Please enter your choice : ");
181
182
183
             method = scan.nextInt();
184
185
             while (method != 1 && method != 2 ) {
    System.out.println("INVALID METHOD");
    System.out.print("Please enter your choice again : ");
186
187
188
189
                  method = scan.nextInt();
             }
191
192
             if (method == 1){
193
                  System.out.print("You are choosing online banking as a payment method.");
194
             }
195
196
             else {
197
                  System.out.println("You are choosing cash on delivery as a payment method.");
198
199
200
201
202
             System.out.println():
             Svstem.out.println():
              System.out.println():
202
203
              System.out.println();
204
205
              if (choice == 'A') {
206
                   207
                    System.out.println("You will get 25% off as a new member.");
                   System.out.println("You will get 25% off as a new member.");
System.out.println("You have to pay RM50 per year to keep being a member.");
discountreceived = (total*25)/100;
System.out.println("You get RM" + discountreceived + " off.");
System.out.println("You have to pay RM5 for delivery cost.");
finaltotal = total - discountreceived + 50;
delivery = finaltotal +5;
208
209
210
212
213
                   214
215
216
217
              }
              218
219
220
221
                   System.out.println("You have to pay RM5 for delivery cost.");
                   223
224
225
226
227
228
              229
                   System.out.println("You get RM10 off for next purchase, a free tool and and also free delivery.");
230
                   231
232
233
234
235
236
```

```
236
237
          else {
238
              239
              System.out.println("You have to pay RM5 for delivery cost.");
             240
241
242
243
244
       }
245
246⊖
       public static int sumArray(int [] list) {
247
          int x;
248
          int sum = 0;
          for ( x = 0; x < list.length; <math>x++)
249
             sum = sum + list[x];
250
251
          return sum:
252
253
254
255⊜
       public static int indexExpensive (int [] list) {
256
          int y;
257
          int i = 0;
258
          for (y = 1; y < list.length; y++)
             if (list[i] < list[y])</pre>
259
260
                i = y;
261
          return i:
       }
262
263
264⊖
       public static int sumArray2 (int [] list) {
265
266
          int sum2 = 0;
267
          for ( m = 0; m < list.length; m++)</pre>
             sum2 = sum2 + list[m];
268
269
          return sum2;
270
       }
271
2/1
272⊖
         public static int indexExpensive2(int [] list) {
             int j;
273
274
             int k = 0;
             for (j = 1; j < list.length; j++)</pre>
275
                 if (list[k] < list[j])</pre>
276
277
                     k = j;
278
             return k;
 279
280
281
         public static void showNotification(String g) {
282⊖
             System.out.println("Hello " + g );
             System.out.println("Feel free to check the seeds we offer !");
284
285
286
             }
287
 200
```

5.0 The sample run

```
Good Morning!
How could we call you?
Alan Tan
Hi! Alan Tan Welcome to GROUP6 COMPANY!!!
Which following of service do you like?
1.Bread
Price Calculation for Bread
Bill Payment
2.Cake
Calculation for mass of ingredients to make cake for 1 month
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
Finance calculation and statement of dessert shop
5.Fruits
Purchasing seeds application
0.Exit
Please enter a number: 1
Hi,Welcome to HO JUN HAN store! Alan Tan
Enter your password: 12345
Your password is correct.
Options to access:
1)Price Calculation for Bread
2)Bill Payment
Enter the option that want to access: 2
Chocolate bread: RM6.12
Garlic bread: RM4.11
Butter sugar bread: RM4.12
Red bean bread: RM4.52
Do you have membership card?
0 = NO
1 = YES
Enter number: 0
Quantity of chocolate bread: 3
Quantity of garlic bread: 4
Quantity of butter sugar bread: 2
Quantity of red bean bread: 6
Price to be paid: RM70.16
Amount received: RM100
              : RM29.84
Change
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number: 1
Which following of service do you like?
1.Bread
Price Calculation for Bread
Bill Payment
2.Cake
Calculation for mass of ingredients to make cake for 1 month
```

```
3.Rice
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
Finance calculation and statement of dessert shop
5.Fruits
Purchasing seeds application
0.Exit
Please enter a number: 2
Hi, Welcome to DANIEL FIKREY store! Alan Tan
This Programme Will Calculate The Mass or Number of Ingredients for 1 Month
Please enter the number of sale of the cake day by day in one week :
Sales: 9
Sales : 9
Sales: 9
****************
     The total of cake sale for one week is 63
^st The average of number cake sale for one day is 9 ^st
***************
Please enter the number of your ingredients : 5
****************
Please enter your ingredients :
* sugar
* flour
* chocolate
* ovallete
* vanilla
****************
```

```
Please enter the mass of each ingredient to make one cake :
sugar: 0.1
flour: 0.2
chocolate: 0.3
ovallete : 0.1
vanilla: 0.2
****************
Please enter the mass of remaining stock of each ingredients :
sugar: 1
flour: 2
chocolate: 1
ovallete : 1
vanilla : 1
*********
     The results
 sugar : 26.0 kg
 flour : 52.0 kg
 chocolate: 80.0 kg
 ovallete : 26.0 kg
 vanilla : 53.0 kg
Do you want to add more the ingredient???
If you want to add more the amount of the ingredient , please enter \ensuremath{\mathbf{1}}
If you want to stay with the amount of the ingredient, please enter \boldsymbol{\theta}
sugar : 26.0 kg
Enter new mass or number of sugar in kg = 25
flour : 52.0 kg
Enter new mass or number of flour in kg = 20
chocolate: 80.0 kg
Enter new mass or number of chocolate in kg = 30
ovallete : 26.0 kg
Enter new mass or number of ovallete in kg = 2
vanilla : 53.0 kg
Enter new mass or number of vanilla in kg = 10
********
The new mass of ingredients :
sugar = 25.0 kg
flour = 20.0 kg
chocolate = 30.0 \text{ kg}
ovallete = 2.0 kg
vanilla = 10.0 kg
********
Thank you for using our service
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number: 1
Which following of service do you like?
Price Calculation for Bread
Bill Payment
```

```
2.Cake
Calculation for mass of ingredients to make cake for 1 month
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
Finance calculation and statement of dessert shop
Purchasing seeds application
0.Exit
Please enter a number: 3
Hi, Welcome to HO WAI KIAT store! Alan Tan
Hi,what service do you need?
1:Calculate the yield.
2:Calculate the next harvest amount.
3:Arranging the inventory.
0:Exit.
Please enter the number : 1
Please enter the weight in sample unit(kg/10m2)
Enter the weight of Black rice:
11
Enter the weight of Jasmine rice:
Enter the weight of Brown rice:
Enter the weight of Red Cargo rice:
Enter the weight of Sticky rice:
Enter the weight of Long grain white rice:
Please enter the area of the farm of each type of rice (hectare)
Enter the area of Black rice farm:
Enter the area of Jasmine rice farm:
Enter the area of Brown rice farm:
Enter the area of Red Cargo rice farm:
Enter the area of Sticky rice farm:
Enter the area of Long grain white rice farm:
*The formula of kg/ha is kg/10m2 x 1000 = kg/ha*
*The formula of kg is kg/ha x hectare = kg
*The yield of each type of rice in kg
************
Black rice :11000.00kg
Jasmine rice: 44000.00kg
Brown rice :99000.00kg
Red Cargo rice :176000.00kg
Sticky rice :275000.00kg
Long grain white rice :396000.00kg
```

```
*The formula of 1 kg/ha is 2.2lbs/ha
*The formula of lbs is lbs/ha x hectare = lbs*
*The yield of each type of rice in lbs
*************
Black rice :24200.00lbs
Jasmine rice :96800.001bs
Brown rice :217800.00lbs
Red Cargo rice :387200.00lbs
Sticky rice :605000.00lbs
Long grain white rice :871200.00lbs
Hi, what service do you need?
1:Calculate the yield.
2:Calculate the next harvest amount.
3:Arranging the inventory.
0:Exit.
Please enter the number : 2
Please enter the current yield of Black rice(kg/ha)
Please enter the current yield of Jasmine rice(kg/ha)
Please enter the current yield of Brown rice(kg/ha)
Please enter the current yield of Red Cargo rice(kg/ha)
Please enter the current yield of Sticky rice(kg/ha)
Please enter the current yield of Long grain white rice(kg/ha)
Please select the percentage by following type of factors
Climate
Spring: +10%
Summer: +10%
Autumn: -10%
Winter: +5%
Enter the percentage(%)
Government policy
Tax: -5%
Allowance: +10%
Enter the percentage(%)
-10
Human Resources
Enough: +10%
Lack: -10%
Enter the percentage(%)
Cost of production
Increase: -5%
Decrease: +5%
Enter the percentage(%)
You are something wrong.
Hi,what service do you need?
1:Calculate the yield.
2:Calculate the next harvest amount.
3:Arranging the inventory.
0:Exit.
Please enter the number : 0
ok, you're exit.
Thank you by using our service.
Goodbye!
```

```
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number: 1
Which following of service do you like?
Price Calculation for Bread
Bill Payment
2.Cake
Calculation for mass of ingredients to make cake for 1 month
3.Rice
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
4.Dessert
Finance calculation and statement of dessert shop
5.Fruits
Purchasing seeds application
0.Exit
Please enter a number: 4
Hi, Welcome to KOR JUN XIANG application! Alan Tan
Enter how many types of desserts you sell in your store: 4
Enter the 4 type of desserts :
Chocolate cake
Lemon meringue pie
Rainbow macaron set
Raspberry puff
Price of the Chocolate cake: RM299
Cost of ingredients of the Chocolate cake: RM220
Quantity of the Chocolate cake sold: 85
Price of the Lemon meringue pie : RM30
Cost of ingredients of the Lemon meringue pie : RM22
Quantity of the Lemon meringue pie sold: 164
Price of the Rainbow macaron set: RM50
Cost of ingredients of the Rainbow macaron set: RM35
Quantity of the Rainbow macaron set sold : 129
Price of the Raspberry puff: RM14
Cost of ingredients of the Raspberry puff : \ensuremath{\mathsf{RM7}}
Quantity of the Raspberry puff sold : 238
Have you hired staff? (Yes or No)
Enter the rent payment per month : RM900
Enter the utilities fee for this month : \ensuremath{\mathsf{RM650}}
Enter the transport fee for this month : RM370
```

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Desserts detail:
1. Chocolate cake Price: RM299.0 Quantity Sold: 85 Cost: RM220.0 Gross Profit: RM79.0 2. Lemon meringue pie Price: RM30.0 Quantity Sold: 164 Cost: RM22.0 Gross Profit: RM8.0 3. Rainbow macaron set Price: RM50.0 Quantity Sold: 129 Cost: RM35.0 Gross Profit: RM15.0
4. Raspberry puff
                     Price: RM14.0 Quantity Sold: 238
                                                             Cost: RM7.0 Gross Profit: RM7.0
        FINANCIAL STATEMENT
                   ····=··=··
                                  = RM40117.0
         TOTAL SALES
         TOTAL COST OF INGREDIENTS = RM28489.0
        TOTAL GROSS PROFIT = RM11628.0
TOTAL OTHER COST = RM1920.0
         TOTAL OTHER COST
        NET INCOME
                               = RM9708.0
"You have a decent income and can keep your business going."
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number: 1
Which following of service do you like?
1.Bread
Price Calculation for Bread
Bill Payment
2.Cake
Calculation for mass of ingredients to make cake for 1 month
3.Rice
Calculate the yield.
Calculate the next harvest amount.
Arranging the inventory.
4.Dessert
Finance calculation and statement of dessert shop
5. Fruits
Purchasing seeds application
0.Exit
Please enter a number: 5
Hi, Welcome to NURLAILATUL AQILAH store! Alan Tan
Please enter your name : Alan
Please enter your state : Selangor
Please enter your gender : Male
Please enter your age : 19
Welcome to the Green Eagle Seed Application, Alan
You have a notification from the application !
Hello Alan
Feel free to check the seeds we offer !
               * Price (200g) * Price (500g)
Type of seed
*********************
       * RM60 * RM110
                     RM70
Premium Apple *
Strawberry *
                                     RM120
                       RM80
                                     RM150
Premium Strawberry*
                       RM90
                                     RM160
Grape * RM50
                                     RM100
Premium Grape * RM60
                                * RM110
Orange * RM45
Premium Orange * RM55
                                      RM90
                                 * RM100
```

```
Please enter the type of seed you want to buy : Apple
Choose either 200g or 500g : 500
Enter the price of seed you want to buy : RM80
How many bag of seed you want to buy ? : 2
* * * * * * * *
Please enter the second type of seed you want : Orange
Choose either 200g or 500g : 200
Enter the price of seed you want to buy : RM150
How many bag of seed you want to buy ? : 3
Enter the number of seed types you want to buy: 2
Enter the 1 name :
Apple
Enter the 2 name :
Orange
The seeds you want to buy are :
Apple
Orange
The total price of your products : RM610
These are only for users' information.
The total price of 200g seeds are : RM510
The most expensive seed's price is : RM90
* * * * * * * * * * * * * * * * *
The total price of 500g seeds are : RM940
The most expensive seed's price is : RM160
Are you a member ?
Enter 'Y' if you are a member.
Enter 'N' if you are not a member.
Do you want to be a member ?
Enter 'A' if you want to be a member.
Enter 'B' if you do not want to be a member.
Your member's name is Alan
If you are a member, you will get benefits like down below :
You will get a RM5 off voucher for next purchase for minimum spending RM100.
If you are spending RM300 and above, you will get a RM10 off for next purchase, a free tool and free delivery.
You can choose the method of paying.
Enter [1] for online banking.
Enter [2] for cash on delivery.
Please enter your choice : 3
INVALID METHOD
Please enter your choice again : 1
You are choosing online banking as a payment method.
You will get 25% off as a new member.
You have to pay RM50 per year to keep being a member.
You get RM152 off.
You have to pay RM5 for delivery cost.
Do you want to continue to other food or drink?
1.Yes 2.No
Please enter a number: 2
OK, thank you for using our service, please come again!!!
```