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ABSENT : 08
CLASS :1I – IT
TOPIC : QUIZ 1 ASD PRACTICUM

[Question 1] 10 poin

Create a class diagram for the following case study. A flower shop called "Royal Garden" wants to have a program that can be used to record its sales. The system can be used to input flower, stock, and price data. The system can display a list of existing flowers, can make changes to stock and prices, and display the entire stock of flowers in the shop. Make the Class Diagram!

ROYAL GARDEN
String name; Int stock, price; Int new stock;
inputData() displayData() updateStock() totalStock()

[Question 2] 90 poin

1. Create a program for the Royal Garden flower shop by applying the Array Of Objects principle. Objects that are stored in the form of objects sold goods (flowers).
2. When Menu 1 is selected, users can enter details of items sold by RoyalGarden florists such as item name, stock, and price.
3. When Menu 2 is selected, the program will display all items sold at royalgarden along with their stock and prices
4. When Menu 3 is selected, there will be a sub menu to add stock or reduce stock. When the menu that reduces stock is selected, the stock will decrease. When the add stock menu is selected, the stock will increase
5. When Menu 4 is selected, the total of all existing stock will be added up.
6. When Menu 4 is selected, then it will exit the program

~ A N S W E R ~

Program:

src > absen08 > flower08.java > flower08 > main(String[])

```java
package absen08;
import java.util.Scanner;

public class flower08 {
    Run | Debug
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String[] name = new String[50];
        int[] stock = new int[50];
        int[] price = new int[50];
        String pil;
        int n,i,choose;
        System.out.print("How Many Flowers: ");n=sc.nextInt();
        System.out.println("==================");
        do {
        System.out.println("=======RoyalGarden Flower Shop=======");
        System.out.println("Menu: \n1. Input Flower Data\n2. Display Flower Data\n3. Update Flower Stock"
                + "\n4. Total Stock Of Flowers\n5. Exit");
        System.out.print("Select Menu: ");choose=sc.nextInt();
        System.out.println("==================");

            switch(choose) {
            case 1:
                for(i=0;i<n;i++) {
                    sc.nextLine();
                    System.out.println((i+1)+"th Flower:");
                    System.out.print("Input Flower Name  : ");name[i]=sc.nextLine();
                    System.out.print("Input Stock        : ");stock[i]=sc.nextInt();
                    System.out.print("Input Price        : ");price[i]=sc.nextInt();
                    System.out.println("==================");
                    sc.nextLine();
                }
                System.out.print("Go back to menu?(y/n)");pil=sc.nextLine();
                if(pil.equals("Y") || pil.equals("y")) {

                }else {
                    System.exit(0);
                }
                break;
```

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```
39              case 2:
40                  for(i=0;i<n;i++) {
41                      sc.nextLine();
42                      System.out.println((i+1)+"th Flower:");
43                      System.out.println("Flower Name  : "+name[i]);
44                      System.out.println("Stock       : "+stock[i]);
45                      System.out.println("Price       : "+price[i]);
46                      System.out.println("==================");
47                  }
48                  System.out.print("Go back to menu?(y/n)");pil=sc.nextLine();
49                  if(pil.equals("Y") || pil.equals("y")) {
50
51                  }else {
52                      System.exit(0);
53                  }
54                  break;
55              case 3:
56                  int pilih,stockadd;
57                  System.out.print("1. Add Stock\n2. Reduce Stock\nSelect: ");pilih=sc.nextInt();
58                  if(pilih==1) {
59                      for(i=0;i<n;i++) {
60                          sc.nextLine();
61                          System.out.println((i+1)+"th Flower:");
62                          System.out.println("Flower Name  : "+name[i]);
63                          System.out.print("Input New Stock: ");stockadd=sc.nextInt();
64                          stock[i] = stock[i]+stockadd;
65                      }
66                  }else {
67                      for(i=0;i<n;i++) {
68                          sc.nextLine();
69                          System.out.println((i+1)+"th Flower:");
70                          System.out.println("Flower Name  : "+name[i]);
71                          System.out.print("Input New Stock: ");stockadd=sc.nextInt();
72                          stock[i] = stock[i]-stockadd;
73                      }
74                  }
75                  System.out.println("===========All Data============");
76                  for(i=0;i<n;i++) {
77                      System.out.println((i+1)+"th Flower:");
78                      System.out.println("Flower Name  : "+name[i]);
79                      System.out.println("Stock       : "+stock[i]);
80                      System.out.println("Price       : "+price[i]);
81                      System.out.println("==================");
82                  }
83                  System.out.print("Go back to menu?(y/n)");pil=sc.nextLine();
84                  if(pil.equals("Y") || pil.equals("y")) {
85
86                  }else {
87                      System.exit(0);
88                  }
89                  break;
90              case 4:
91                  int sum=0;
92                  for(i=0;i<n;i++) {
93                      sum = sum+stock[i];
94                  }
95                  System.out.print("Sum of Stock: "+sum);
96                  System.out.print("Go back to menu?(y/n)");pil=sc.nextLine();
97                  if(pil.equals("Y") || pil.equals("y")) {
98
99                  }else {
100                     System.exit(0);
101                 }
102                 break;
103             default:
104                 System.out.print("Sorry, wrong input");
105                 break;
106             }
107         }while(choose!=5);
108     }
109 }
110
```

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After running:

```
How Many Flowers: 2
==================
=======RoyalGarden Flower Shop=======
Menu:
1. Input Flower Data
2. Display Flower Data
3. Update Flower Stock
4. Total Stock Of Flowers
5. Exit
Select Menu: 1
==================
1th Flower:
Input Flower Name  : tulip
Input Stock        : 5
Input Price        : 6000
==================

2th Flower:
Input Flower Name  : anggrek
Input Stock        : 10
Input Price        : 4500
==================
Go back to menu?(y/n)y
```

```
Select Menu: 2
==================
1th Flower:
Flower Name  : tulip
Stock        : 5
Price        : 6000
==================

2th Flower:
Flower Name  : anggrek
Stock        : 10
Price        : 4500
==================
Go back to menu?(y/n)
```

```
Select Menu: 3
====================
1. Add Stock
2. Reduce Stock
Select: 1
1th Flower:
Flower Name  : tulip
Input New Stock: 4
2th Flower:
Flower Name  : anggrek
Input New Stock: 7
============All Data=============
1th Flower:
Flower Name  : tulip
Stock        : 9
Price        : 6000
==================
2th Flower:
Flower Name  : anggrek
Stock        : 17
Price        : 4500
==================
Go back to menu?(y/n)
```