

ConSol Encapsulation

Fruit ABC merupakan toko buah-buahan, toko ini dapat menambah stock, memperbaharui stock, dan menjual stock

1. Anda diminta untuk menampilkan tampilan awal berupa pilihan menu!
(Program ini meminta inputan antara 1-5)

```
Fruit ABC
1. Insert Fruit
2. Update Fruit
3. Sell Fruit
4. View Fruit
5. Exit
Choose >>
```

2. Anda diminta untuk membuat program yang bisa menambah stock fruit!
Menu 1 Insert
(Validasi fruit name 4-10 characters, validasi fruit price lebih dari 7000)

```
Input fruit name [4 – 10 characters]:
Mango
Input fruit price [more than 7000]:
10000
Insert successfully!
```

3. Anda diminta untuk membuat program yang bisa mengupdate stock fruit!
Menu 2 Update
(Validasi kalau stock fruit masih kosong)

```
Fruit is empty!
Press enter to continue...
```

Tampilkan seluruh buah

Program akan meminta nomor ke berapa fruit yang ingin diupdate
(Validasi 0 untuk cancel dan balik ke menu awal, validasi input tidak boleh kurang dari 0 atau melewati stock buah)

```
=====
|No| Fruit Name | Fruit Price |
|1 | Mango     | 10000    |
|2 | Banana     | 8000     |
=====
Input index [1 – 2 | 0 to cancel]:
-1
Input index [1 – 2 | 0 to cancel]:
a
Input index [1 – 2 | 0 to cancel]:
1
Input fruit name [4 – 10 characters]:
Grape
Input fruit price [more than 7000]:
15000
Update successfully!
```

4. Anda diminta untuk membuat program yang bisa menjual stock fruit!

Menu 3 Sell

(Validasi kalau stock fruit masih kosong)

```
Fruit is empty!
Press enter to continue...
```

Tampilkan seluruh buah

Program akan meminta nomor ke berapa fruit yang ingin dijual

(Validasi 0 untuk cancel dan balik ke menu awal, validasi input tidak boleh kurang dari 0 atau melewati stock buah)

Tampilkan fruit price dan **hapus** fruit yang berhasil dijual

```
=====
|No| Fruit Name | Fruit Price |
|1 | Grape     | 15000    |
|2 | Banana     | 8000     |
=====
Input index [1 – 2 | 0 to cancel]:
a
Input index [1 – 2 | 0 to cancel]:
1
Sell successfully! , you got Rp.15000
```

5. Anda diminta untuk membuat program yang bisa memperlihatkan stock fruit!

Menu 4 View

(Validasi kalau stock fruit masih kosong)

```
Fruit is empty!
Press enter to continue...
```

Tampilkan seluruh buah

```
=====
|No| Fruit Name | Fruit Price |
|1 | Banana    | 8000      |
=====
```

6. Menu 5 Exit

Program Exit

```
=====
|No| Fruit Name | Fruit Price |
|1 | Banana    | 8000      |
=====
Thx telah berkunjung di Fruit ABC!!
```

Anda diminta untuk menggabungkan jawaban dari 6 nomor diatas menjadi sebuah program!!!

```
:/src/Main.java - Eclipse
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Main.java Fruit.java
1 import java.util.Scanner;
2 import java.util.Vector;
3
4 public class Main {
5     Scanner scan = new Scanner (System.in);
6     Vector<Fruit> fruitList = new Vector<>();
7
8     void insert(){
9         int price;
10        String name;
11        do {
12            System.out.println("Input fruit name [4 - 10 characters]: ");
13            name=scan.nextLine();
14        } while (name.length()<4 || name.length()>10);
15
16        do {
17            System.out.println("Input fruit price [more than 7000]: ");
18            price= scan.nextInt(); scan.nextLine();
19        } while (price<7000);
20        fruitList.add(new Fruit(price, name));
21        System.out.println("Insert successfully!");
22        scan.nextLine();
23    }
24    void view(){
25        int temp=fruitList.size();
26        if(temp==0){
27            System.out.println("Fruit is empty!");
28            System.out.println("Press enter to continue...");
29            scan.nextLine();
30        }
31        else{
32            System.out.println("-----");

```

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```

31     else{
32         System.out.println("=====");
33         System.out.println("|No| Fruit Name | Fruit Price |");
34         for(int i=0;i<fruitList.size();i++){
35             System.out.printf("%d|%s|%10d|\n",i+1,fruitList.get(i).getName(),fruitList.get(i).getPrice());
36         }
37         System.out.println("=====");
38     }
39 }
40
41 void update(){
42     int price;
43     String name;
44     int update;
45     int temp=fruitList.size();
46     if(temp==0){
47         System.out.println("Fruit is empty!");
48         System.out.println("Press enter to continue...");
49         scan.nextLine();
50     }
51     else{
52         view();
53         do {
54             System.out.println("Input index [1-"+fruitList.size()+ " | 0 to cancel]: ");
55             while(!scan.hasNextInt()){
56                 System.out.println("Input index [1-"+fruitList.size()+ " | 0 to cancel]: ");
57                 scan.next(); scan.nextLine();
58             }
59             update=scan.nextInt(); scan.nextLine();
60             if(update==0){
61                 return;

```

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```

49         scan.nextLine();
50     }
51     else{
52         view();
53         do {
54             System.out.println("Input index [1-"+fruitList.size()+ " | 0 to cancel]: ");
55             while(!scan.hasNextInt()){
56                 System.out.println("Input index [1-"+fruitList.size()+ " | 0 to cancel]: ");
57                 scan.next(); scan.nextLine();
58             }
59             update=scan.nextInt(); scan.nextLine();
60             if(update==0){
61                 return;
62             }
63         } while (update<0 || update> fruitList.size());
64
65         do {
66             System.out.println("Input fruit name [4 - 10 characters]: ");
67             name=scan.nextLine();
68         } while (name.length(<4 || name.length(>10));
69
70         do {
71             System.out.println("Input fruit price [more than 7000]: ");
72             price= scan.nextInt(); scan.nextLine();
73         } while (price<7000);
74         fruitList.get(update-1).setName(name);
75         fruitList.get(update-1).setPrice(price);
76         System.out.println("Update successfully!");
77     }
78 }
79
80 void sell(){

```

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```

78     }
79
80     void sell(){
81         int temp=fruitList.size();
82         int sell;
83         if(temp==0){
84             System.out.println("Fruit is empty!");
85             System.out.println("Press enter to continue...");
86             scan.nextLine();
87         }
88         else{
89             view();
90             do {
91                 System.out.println("Input index [1-"+fruitList.size()+" | 0 to cancel]: ");
92                 while(!scan.hasNextInt()){
93                     System.out.println("Input index [1-"+fruitList.size()+" | 0 to cancel]: ");
94                     scan.next(); scan.nextLine();
95                 }
96                 sell=scan.nextInt(); scan.nextLine();
97                 if(sell==0){
98                     return;
99                 }
100             } while (sell<0 ||sell> fruitList.size());
101             System.out.println("Sell successfully!, you got Rp."+fruitList.get(sell-1).getPrice());
102             fruitList.remove(sell-1);
103         }
104     }
105
106
107     void exit(){
108         view();

```

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```

106
107     void exit(){
108         view();
109         System.out.println("Thx telah berkunjung di Fruit ABC!!");
110     }
111
112     public Main() {
113         int choose;
114         do {
115             System.out.println("Fruit ABC");
116             System.out.println("Menu:");
117             System.out.println("1. Insert Fruit");
118             System.out.println("2. Update Fruit");
119             System.out.println("3. Sell Fruit");
120             System.out.println("4. View Fruit");
121             System.out.println("5. Exit");
122             System.out.println("Choose >> ");
123             choose=scan.nextInt(); scan.nextLine();
124

```

src/src/Main.java - Eclipse

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```
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146
147
148
149
150
151
System.out.println("4. view Fruit");
System.out.println("5. Exit");
System.out.println("Choose >> ");
choose=scan.nextInt(); scan.nextLine();

switch (choose) {
case 1:
    insert();
    break;
case 2:
    update();
    break;
case 3:
    sell();
    break;
case 4:
    view();
    break;
case 5:
    exit();
    break;
}
} while (choose<1 || choose>5 || choose!=5);
}

public static void main(String[] args) {
    new Main();
}
}
```

src/src/Fruit.java - Eclipse

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```
1
2
3
4
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15
16
17
18
19
20
21
22
23
public class Fruit {
    private int price;
    private String name;
    public int getPrice() {
        return price;
    }
    public void setPrice(int price) {
        this.price = price;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public Fruit(int price, String name) {
        super();
        this.price = price;
        this.name = name;
    }
}
```