Soal Praktikum Practicum Case		
COMP6362 Data Structures	BINUS MALANG Institute of	
Teknik Informatika Computer Science	Creative Technology CS-COMP6362-Var02.1	
Periode Berlaku Mulai Semester Genap 2019/2020 Valid on Even Semester Year 2019/2020	Revisi 00 Revision 00	

Learning Outcomes

• Explain the concept of data structure and its usage in application

Topic

• Session 01 - Array and Structure

Sub Topics

- Array of Struct
- Struct Declaration
- Struct Implementation
- Array of Struct Implementation

Soal

Case

BLUE Cake Shop is a small cake shop. Mr. Krauser, the manager of BLUE Cake Shop, wants to change the cashier system to be paperless. He needs a program that can handle his cake shop transaction. He asks you as a skillful programmer to make a program like this:

• Program always shows List of Cakes which contains No, Cake Code, Cake Name, Available, and Price of the available cakes. The List of Cakes:

No.	Cake Code	Cake Name	Available	Price
02.	СК001 СК009 СК017 СК023	Blueberry Cake Chocochip Cake Mayonaise Cake Strawberry ShortCake	13 5 24 7	Rp. 25000,- Rp. 20000,- Rp. 30000,- Rp. 17500,-
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- Program consists of 3 menus:
 - 1. Sell
 - 2. Add Stock
 - 3. Exit

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- If user chooses **Sell**, then:
 - Ask user to input cake code he/she wants to sell.
 - The cake code must consist of 5 characters and be available in the list of cakes. If user inputs the cake code other than the ones in the list, the program will show the message "--- The Cake Code doesn't exist ---" and ask *user* to input again. The cake code is case sensitive.
 - Then ask user to input the quantity.
 - The quantity must be between 0 and x, where x = [available chosen cake].
 - The user cannot sell the cakes more than **the quantity** available on the list. If user tries to do so, show the message "...The quantity of cake is not enough..."
 - If user succeeds to sell, then show:
 - "Total Price is: Rp [price of cake],- x [quantity of cake] = Rp [total price],-"
 "--- Thank You ---"
 - Then subtract **the available cakes** with **the quantity of cake** that has been sold.

[available cakes] = [available cakes] - [quantity of cakes that has been sold]

- If user chooses **Add Stock**, then:
 - Ask user to input the cake code he/she wants to add to the list.
 - The cake code must **consist of 5 characters** and be available in **the list of cakes**. If user inputs **the cake code** other than the ones in the list, program will show the message "--- The Cake Code doesn't exist ---" and ask *user* to input again. The cake code is case sensitive.
 - Then ask user to input **the quantity**.
 - Validate the quantity of cake must be between 1 and 10.
 - If user succeeds to add stock, then show:
 - "--- Adding Stock Success ---"
 - Then add **the available cakes** with **the quantity of cake** that has been added.

[available cakes] = [available cakes] + [quantity of cakes added]

• If user chooses **Exit**, then the program ends.

Please run the EXE file to see the sample program.

Print Screen of Main Menu

BLUE CAKE SHOP CASHIER				
No. Cake Code	l Cake Name	Available Price		
01. CK001 02. CK009 03. CK017 04. CK023	Blueberry Cake Chocochip Cake Mayonaise Cake Strawberry ShortCake	13 Rp. 25000,- 5 Rp. 20000,- 24 Rp. 30000,- 7 Rp. 17500,-		
Menu : 1. Sell 2. Add Stock 3. Exit Input choice :				

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Print Screen of Sell Menu (Menu '1')

```
Input Cake Code [5 chars]: CK009
Input Quantity [0..5]: 3

Total Price is : Rp 20000,- x 3 = Rp 60000,-

--- Thank You ---
```

Print Screen of Add Stock (Menu '2')

```
Input Cake Code [5 chars]: CK023
Input Quantity [1..10]: 7
--- Adding Stock Success ---
```

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