Soal Praktikum Practicum Case	
COMP6362 Data Structures	BINUS MALANG Institute of
Teknik Informatika Computer Science	CS-COMP6362-Var02.3
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

BAGOES stationery store is a small stationery store. Mr. Gimin, the manager of BAGOES stationery store, wants to change the cashier system to be paperless. He needs a program that can handle his stationery store transaction. He asks you as a skillful programmer to make a program like this:

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

No.	Stationery Cod	e Stationery Name	Available Pr	ice
02.	SA001 SA004 SA009 SA012	Pencil Eraser Pen Notes	l 120 Ri	7500,- 5.5000,- 6.8000,- 6.9500,-

- 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 **stationery code** he/she wants to sell.
 - The stationery code must consist of 5 characters and be available in the list of stationery. If user inputs the stationery code other than the ones in the list, the program will show the message "--- The Stationery Code doesn't exist ---" and ask *user* to input again. The stationery code is case sensitive.
 - Then ask user to input **the quantity**.
 - The quantity must be between 0 and x, where x = [available chosen stationery].
 - The user cannot sell the stationery more than **the quantity** available on the list. If user tries to do so, show the message "...The quantity of stationery is not enough..."
 - If user succeeds to sell, then show:
 - "Total Price is: Rp [price of stationery],- x [quantity of stationery] = Rp [total price],-"
 "--- Thank You ---"
 - Then subtract **the available stationery** with **the quantity of stationery** that has been sold. [available stationery] = [available stationery] [quantity of stationery that has been sold]
- If user chooses Add Stock, then:
 - Ask user to input the stationery code he/she wants to add to the list.
 - The stationery code must **consist of 5 characters** and be available in **the list of stationery**. If user inputs **the stationery code** other than the ones in the list, program will show the message "--- **The Stationery Code doesn't exist ---**" and ask *user* to input again. **The stationery code is** case sensitive.
 - Then ask user to input **the quantity**.
 - Validate the quantity of stationery must be between 1 and 10.
 - If user succeeds to add stock, then show:
 - "--- Adding Stock Success ---"
 - Then add **the available stationery** with **the quantity of stationery** that has been added. [available stationery] = [available stationery] + [quantity of stationery added]
- If user chooses **Exit**, then the program ends.

Please run the EXE file to see the sample program.

Print Screen of Main Menu

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Print Screen of Sell Menu (Menu '1')

```
Input Stationery Code [5 chars]: SA009
Input Quantity [0..120]: 10

Total Price is : Rp 8000,- x 10 = Rp 80000,-
--- Thank You ---
```

Print Screen of Add Stock (Menu '2')

```
Input Stationery Code [5 chars]: SA004
Input Quantity [1..10]: 5
--- Adding Stock Success ---
```

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