Soal Praktikum Practicum Case	
COMP6362 Data Structures	BINUS UNIVERSITY
Teknik Informatika Computer Science	CS-COMP6362-Var03.4
Periode Berlaku Mulai Semester Genap 2020/2021 Valid on Even Semester Year 2020/2021	Revisi 00 Revision 00

Learning Outcomes

- Demonstrate how to create any learned data structure
- Analyze the usage of data structure in application

Topic

• Session 02 - Single Linked List

Sub Topics

- Pointer of Struct
- Malloc
- Free
- Operator
- Push Head
- Push Tail
- Push Middle
- Pop Head
- Pop Tail
- Pop Middle

Soal

Case

Mr. Ali has a rental car company named Alamo. He needs a program to record the queue list of tenants. Here are the descriptions of the program:

- The program has a tenant's list view, and the first customer must be served first.
- Program consists of 5 menus:
 - 1. View Tenant's List
 - 2. New Tenant
 - 3. Service
 - 4. Delete Tenant
 - 5. Exit
- If user chooses menu 1. View Tenant's List, then:
 - The program will show the list of number, tenant's name, and brand of car.
 - If there is no data, then program will show the message "---There are no list available---".
- If user chooses menu 2, New Tenant, then:

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- The application will ask the user to input the new number of tenant. The number must be integer value begin at 1.
- The application will ask the user to input tenant's name.
- The application will ask the user to input brand of car.
- If user chooses **menu 3. Service**, then:
 - If there is any data in the list of tenants, the application will delete the first data in the list and show the message "---Rental service has been successful---".
 - If there is no data, then program will show the message "---There are no list available---".
- If user chooses **menu 4. Delete Tenant**, then:
 - If there is data in the list, the program will ask the user to enter the number of the tenant they want to delete.
 - If there is no data in the list, then application will show the message "---There are no list available---"...
- If user chooses **menu 5. Exit**, then:
 - Delete all data.
 - Program ends.

Please run the EXE file to see the sample program.

Print Screen of Main Menu

Print Screen of Shoe Menu 1. View Tenant's List

- If there is no data, then program will show the message "---There are no list available---".

Halaman: 2 dari 4 Page 2 of 4 - If there are data available, then show the list of number, tenant's name, and brand of car.

```
-- Alamo Rental Car --
1. View Tenant's List
2. New Tenant
Service
4. Delete Tenant
5. Exit
Input choice : 1
Number of List : 1
               : James
Name
Brand of Car
               : Pajero Sport
Number of List : 2
               : Kevin
Brand of Car
               : Fortuner
Number of List : 3
               : Gideon
Name
Brand of Car
               : Terios
```

Print Screen of Shoe Menu 2. New Tenant

Print Screen of Shoe Menu 3. Service

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Print Screen of Shoe Menu 4. Delete Tenant

```
-- Alamo Rental Car --
1. View Tenant's List
2. New Tenant
3. Service
4. Delete Tenant
5. Exit
Input choice : 4
Number of List : 2
Name : Kevin
Brand of Car : Fortuner
Number of List : 3
                : Gideon
Name
Brand of Car
                : Terios
Input the number you want to delete : 3
```

```
Print Screen of Shoe Menu 1. View Tenant's List (after deleting number 3)
-- Alamo Rental Car --
1. View Tenant's List
2. New Tenant
3. Service
4. Delete Tenant
5. Exit
Input choice : 1
Number of List : 2
              : Kevin
Name
Brand of Car : Fortuner
```

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