


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

### Learning Outcomes

- Explain the concept of data structure and its usage in application
- Demonstrate how to create any learned data structure

### Topic

- Session 06 – Double Linked List

### Sub Topics

- Insert Double Linked List

### Soal

*Case*

Mrs. Linda is a head of program study Business Creation. She wants to make a program to record the score of students. Therefore, he asks you as his good friend to make a program using the double linked list concept. Here are the descriptions of the program:

- Program consists of 3 menus:
  1. View Student Score
  2. Add A New Score
  3. Exit
- If user chooses **View Student Score**, then show **the database score of student**.
- If user chooses **Add New Score**, then:
  - Ask user to input **student name**. The length must be between 5 and 30 characters.
  - Ask user to input **nim**. The length must be 10 characters.
  - Ask user to input **course**. The length must be between 5 and 30 characters.
  - Ask user to input **score**. The score must be between 0 and 100.
  - If the data has been successfully inputted, then show the message “--- Add New Score Success ---”
- If user chooses **Exit**, then:
  - Delete all data in the linked list..
  - Program ends.

Please run the EXE file to see the sample program.

### Print Screen of Main Menu

```

DATABASE STUDENT SCORE
.....

1. View Student Score
2. Add New Score
3. Exit

>> Input choice :

```

### Print Screen of View Student Score Menu (Menu '1')

```

--- DATABASE SCORE ---

+-----+-----+-----+-----+-----+-----+
| No. | Student Name | NIM | Course | Test | Score |
+-----+-----+-----+-----+-----+-----+
| 1. | Bagus Ardianto | 2201766614 | Business Information System | Final Test | 87 |
| 2. | Cornelius Santoso | 2201805306 | Entrepreneurship | Mid Test | 89 |
| 3. | Bobby Hartanto | 2201824654 | Business Law | Final Test | 90 |
| 4. | Daniella Tasha | 2201766596 | Financial Business | Mid Test | 89 |
+-----+-----+-----+-----+-----+-----+

```

### Print Screen of Add New Score Menu (Menu '2')

```

Input Student Name [5..30]: Daniella Tasha

Input NIM : 2201766596

Input Course [5..30]: Financial Business

Input Test [Mid Test/Final Test]: Mid Test

Input Score : 89

--- Add New Score Success ---

```