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| **Long Quiz: Skill-Test** | |
| **Course Code:** 201L DSA | **Program:** BSCpE |
| **Course Title:** Data Structure Analysis | **Date Performed:** August 30, 2025 |
| **Section:** 2-B | **Date Submitted:** August 30, 2025 |
| **Name:** Jan Lawrence M. Ramos | **Instructor:** Engr. Maria Rizette H. Sayo |
| * **Objectives** | |
| This laboratory activity aims to:   * Understanding the structure and implementation of doubly linked lists * Writing algorithms for common operations in doubly linked lists * Implementing a Python program that demonstrates the functionality of a doubly linked list * Applying doubly linked list concepts to manipulate character data from a string | |
| **2. Discussion** | |
| This activity applied the linked list (doubly), it used the concept of doing code using linked list (doubly). It display the code the in fullname and underscore at the end. it used def.transverse and def.insert\_underscore. | |
| **3. Materials and Equipment** | |
| Computer: used to make the source code for the Skill-Test  Mouse: used to navigate the Computer  Keyboard: Used to type the source code | |
| **4. Procedure** | |
| First, I wrote the classes for a node and the list. then i put my fullname, then i also insert a underscore (\_) at the end of the full name. Finally, it traversed the list from the start, printing each character and ending with an underscore. | |
| **5. Output** | |
| * Linked List Contents: * JAN LAWRENCE MERCADER RAMOS\_ | |
| **6. Conclusion** | |
| This program succesfully demonstrate how to use the linked list (doubly) by manipulating data. The linked list (doubly) function well the transverse method and succesfully display the fullname and the underscore (\_) at the end. | |