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| **Long Quiz** | |
| **Course Code: CPE - 201** | **Program: Computer Engineering** |
| **Course Title: Data Stracture and Algorithm** | **Date Performed: 08/30/2025** |
| **Section: BSCpE – 2B** | **Date Submitted: 08/30/2025** |
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| 1. **Objective** | |
| * In this activity, we manage to insert underscore in our full name in linked-list by adding insert function. * Also in this activity we manage to traversing our full name in linked-list by adding traverse function. | |
| **2. Discussion** | |
| * A singly linked list is defined by the code. Every element (node) in a linked list points to the one after it. Basic tasks like adding elements to the list, inserting at the front and back, and printing every element are carried out by this code. | |
| **3. Materials and Equipment** | |
| 1. Google Colab  - Used to create python program and show the output.  2. Desktop computer  - Use to run the program and for typing the codes.  3. Operating system (e.g Windows 10 or 11)  - most python softwares requires the lastest version of operating system | |
| **4. Procedure** | |
| * Basic operations such as appending, inserting at the front and end, and traversing the list are defined by the code for a linked list. The characters of a full name ("GLEN JORGE ATANACIO ELPEDES") are combined into a linked list, and underscores are added at both ends. Lastly, it prints the characters and underscores after it has traversed the list. * Create a linked-list * Add characters of a name to the list. * Place underscores at the start and end. * Go through the list and print the result. * Output: | |
| **5. Output** | |
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| **6. Conclusion**  This skilled test illustrates the use of a linked list. It demonstrates how to, make a list that is linked, include items at the beginning, end, or appendix of the list. Navigate through the nodes and print the list. After adding underscores to both ends and characters from a name, the program prints the complete list. | |
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