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| **LONG QUIZ-SKILL TEST** | |
| **Course Code: CPE – 201L** | **Program: COMPUTER ENGINEERING** |
| **Course Title: Data Structure Analysis** | **Date Performed: August 30 ,2025** |
| **Section: BSCPE – 2B** | **Date Submitted: August 30 ,202** |
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| 1. **Objectives** | |
|  To modify the structure of a name by inserting an underscore at a specific position.   To traverse the modified name stored in a list (array) and display each character with its corresponding index. | |
| **2. Discussion** | |
| The program takes a full name (Karl Benedict Dantes Caasi) and inserts underscores (\_) between every character using the join () function. The modified string is then converted into a list, making each character an element of an array. By using the enumerate () function, the program traverses the array and prints each character alongside its index position. This demonstrates fundamental concepts of string manipulation, array traversal, and iteration in Python. | |
| **3. Materials and Equipment** | |
| Computer – To open a browser like edge Edge – It’s pre-installed on Windows computer Google Collab -provided by Google where you can type and run Python code instantly. No installation needed just open and run. | |
| **4. Procedure** | |
|  Define the full name as a string variable.   Use the Len () function to determine the length of the substring "Karl".   Perform string slicing to insert an underscore after "Karl" and concatenate it with the remaining part of the name.   Convert the resulting modified string into a list of characters.   Print the modified name with the inserted underscore.   Use the enumerate () function in a loop to traverse the list and display each index and its corresponding character. | |
| **5. Output** | |
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| **6. Conclusion:** The program successfully inserts underscores between each character of the given name and traverses each character using arrays. It demonstrates how Python can manipulate strings, convert them into lists, and iterate over their elements. This activity reinforces understanding of string processing, list operations, and iteration, which are essential in learning Python programming. | |
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