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| **Quiz No.1 Skill Test** | |
| **Course Code: CPE201L** | **Program: BSCPE** |
| **Course Title: Data Structure and Algorithms** | **Date Performed: 08/30/2025** |
| **Section: 2-A** | **Date Submitted:08/30/2025** |
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| 1. **Objectives** | |
| 1. Choose only one(1) Data Structure (Array, Linked-List(Singly,Doubly), Stack, Queue) 2. Create a python program that appends each character of your full name and traverse each character. 3. Save your python program as Skill-test in your Colab and GitHub. | |
| **2. Discussion** | |
| I chose array over linked-list(singly, doubly), stack, and queue because array provides simpler implementation over the said data structures in my opinion. While I am doing, I notice that the full name converts into an array or list of individual characters such as the spaces and/or punctuations. Also, the sequence of characters remains exactly as in the original string, The first character in the name becomes the first element in the array, and so on. | |
| **3. Materials and Equipment** | |
| Google Colab | |
| **4. Procedure** | |
| 1. Open a Google Colab 2. Create a new notebook 3. Define the function to append characters 4. Define the function to traverse the array 5. Define the main program 6. Add the script execution condition 7. Run the program | |
| **5. Output** | |
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| **6. Conclusion** | |
| In conclusion, I successfully demonstrated and applied how to represent a string(full name) as an array by appending each character into a Python list and then traversing it element by element. Because of this quiz, I enhanced my knowledge in arrays and mastered basic operations such as insertion and traversal. | |
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