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| **Skill-Test(Quiz)** | |
| **Course Code:** CpE 201L | **Program:** BSCpE |
| **Course Title:** Data Structures and Algorithms | **Date Performed:** August 30,2025 |
| **Section:** 2-A | **Date Submitted:** August 30,2025 |
| **Name:** Polestico, Paul Justine D. | **Instructor:** Engr. Maria Rizette H. Sayo |
| 1. **Objectives** | |
| 1. To Demonstrate the uses of Array and its functions 2. To increase awareness of different types of data structures,   their similarities and their differences   1. To apply prior knowledge of data structures in programming | |
| **2. Discussion** | |
| This activity explores Data Structure concepts and its application in programming. In this activity,the student decided to use the array data type. Array refers to a type of Data Structure where a collection of items are stored at contiguous memory locations. The objects in Array are of the same type and use lesser memory space. Arrays have the Last in, First Out principle,which means that the last element added to an array would also be the first to be removed, Removed in the sense that it would not be erased,but rather seperated from the list. | |
| **3. Materials and Equipment** | |
| Personal Computer (Desktop)  Google Colab (Python) | |
| **4. Procedure** | |
| 1. Define the Stack, Push, Pop, Display, and Display Reverse Classes. 2. Print your Full Name as a string. Define your Full Name as a stack. 3. Append each character of your Full Name using the push function   and print the output.   1. Traverse in reverse each character of your Full Name using the Pop function   and print the output. | |
| **5. Output** | |
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| 1. **Conclusion** | |
| Overall,this activity demonstrates the utilization of arrays and their functions in programming. This also enchanced the student’s awareness on the different types of data structures and how to utilize them with the prior knowledge of their similarities and differences. The student has managed to do so with the inclusion of the pop function to traverse each character of the string in reverse. | |
| **7. Lab Activity Rubric** | |
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