Skill Test	
Course Code: CPE 201L	**Program: BSCpE**
Course Title: Data Structure and Algorithm	**Date Performed: 8/30/2025**
Section: 2A	**Date Submitted: 8/30/2025**
Name: Jalilah M. Disomnong	**Instructor:** Ma'am Sayo

1.Objectives

1. Choose only one(1) Data Structure (Array, Linked-List(Singly,Doubly), Stack, Queue)
2. Create a python that appends each character of your Full name and traverse each character
3. Save your Python as Skill Test in your Colab and GitHub

2. Discussion

- Array is a way to store a group of items. In Python, we use a list for this. Each item in a list can be accessed using its position, starting from 0.
- **Appending to an Array**
  Append means adding items to the end of the list. Using append(), we add each character of the name one by one.
- **Traversing an Array**
  Traverse means going through each item in the list. We use a loop to print each character.

3. Materials and Equipment

During this skill test, I developed my source code using Google Colab and uploaded it to GitHub for version control and sharing.

https://github.com/
https://colab.research.google.com/

4. Procedure

Using Array

```python
def append(arr):
    return arr

def traverse(arr):
    for arr in arr:
        print(arr)

def main():
    arr = []
    fullname = "JALILAH DISOMNONG"
    print("FULL NAME:", fullname)
    print("APPEND ARRAY")
    arr.append(fullname)
    print(arr)
    print("TRAVERSE ARRAY")
    traverse(fullname)

if __name__ == "__main__":
    main()
```

Figure 1 refer to this link: https://colab.research.google.com/drive/1q5FYqtS53gDjjxG2PkOWPxmBYuYY_Gkx#scrollTo=q6oblcRnZ8k7

5. Output

```
FULL NAME: JALILAH DISOMNONG
APPEND ARRAY
['JALILAH DISOMNONG']
TRAVERSE ARRAY
J
A
L
I
L
A
H

D
I
S
O
M
N
O
N
G
```

Figure 2 https://colab.research.google.com/drive/1q5FYqtS53gDjjxG2PkOWPxmBYuYY_Gkx#scrollTo=q6oblcRnZ8k7

7. Conclusion

In this skill test, I implemented the array data structure by creating methods such as append and traverse to manage and display the elements. The append method allowed me to add data to the array, while the traverse method enabled me to iterate through and display each element.

Lab Activity Rubric

Criteria	Ratings						Pts
SO 7 PI 1 **Student Outcome 7.1** Acquire and apply new knowledge from outside sources. threshold: 4.8 pts	6 pts Excellent | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently	4 pts Satisfactory | Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory | Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor | Relies on classroom instruction only	1 pts Very Poor | No initiative or interest in acquiring new knowledge	6 pts
SO 7 PI 2 **Student Outcome 7.2** Learn independently threshold: 4.8 pts	6 pts Excellent | Completes an assigned task independently and practices continuous improvement	5 pts Good | Completes an assigned task without supervision or guidance	4 pts Satisfactory | Requires minimal guidance to complete an assigned task	3 pts Unsatisfactory | Requires detailed or step-by-step instructions to complete a task	2 pts Poor | Shows little interest to complete a task independently	1 pts Very Poor | No interest to complete a task independently	6 pts
SO 7 PI 3 **Student Outcome 7.3** Critical thinking in the broadest context of technological change threshold: 4.8 pts	6 pts Excellent | Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions	5 pts Good | Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts Satisfactory | Analyze information from a variety of sources; formulates a clear and precise perspective.	3 pts Unsatisfactory | Apply the gathered information to formulate the problem	2 pts Poor | Gather and summarized the information from a variety of sources but failed to formulate the problem	1 pts Very Poor | Gather information from a variety of sources	6 pts
SO 7 PI 4 **Student Outcome 7.4** Creativity and adaptability to new and emerging technologies threshold: 4.8 pts	6 pts Excellent | Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good | Ideas are creative and adapt the new knowledge to solve a problem or address an issue	4 pts Satisfactory | Ideas are creative in solving a problem, or address an issue	3 pts Unsatisfactory | Shows some creative ways to solve the problem	2 pts Poor | Shows initiative and attempt to develop creative ideas to solve the problem	1 pts Very Poor | Ideas are copied or restated from the sources consulted	6 pts
						Total Points: 24	