SKILL TEST	
Course Code: CPE 201L	**Program:** BSCPE
Course Title: Data Structure and Algorithms	**Date Performed:** August 30, 2025
Section: 2A	**Date Submitted:** August 30, 2025
Name: Sumel, Hendrix Nathan L.	**Instructor:** Engr. Maria Rizette Sayo

1.Objectives

- To create a python program that is data structured using linked list with my name
- The characters of my name must append and also must traverse

2. Discussion

Relevant concept in this activity, of course using Linkedlist as it is the data structure used in this program. Also implementing node and traverse in this program. And ofcourse my Name.

3. Materials and Equipment

- **Desktop**
- **Google Colab and Github**

4. Procedure

First, I used LinkedList to implement my program. This program contains Node Objects so I have to declare that. Then I proceed with the code execution. next I have to implement traverse, then printed my name for linkedlist and to aso append. Lastly I printed my name in traverse.

5. Output

```
Hendrix Nathan Sumel: Henddrix Nathan Sumel

Traversing your name character by character:
H
e
n
d
d
r
i
x

N
a
t
h
a
n

S
u
m
e
l
```

7. Conclusion

To conclude this skill-test. For me it was a little frustrating to not rely on AI since to be honest most of the time I use it during lab activities. But of course with a very little to no wifi during this quiz. Then I found out that this is a quiz and thank God because I did not used AI. Overall it was really nice to have done this program and with using my name as the traversing characters. Data structure is a really good programing subject.

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