

Skill test	
Course Code: CPE 201L	Program: BSCPE
Course Title: Data Structure and Algorithms	Date Performed: August 08, 2025
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<b>1.Objectives</b>	
This activity aims to enhance the skill of the students by creating a program that stores each character of a name in a singly linked list and displays the name in an order.	
<b>2. Discussion</b>	
This program uses a singly linked list to store each letter of a name. Each node keeps one character and a link to the next node. By connecting each node, the whole name can be formed. The program then traverses the list starting from the head node to display the name.	
<b>3. Materials and Equipment</b>	
Google colab – used for coding the program Pycharm – used for coding the program	
<b>4. Procedure</b>	
The program starts by creating a node class with data and next. The name stored as an array of characters, the first character becomes the first node or the head node. Each of the remaining characters of the name is added as a new node linked to the previous one, then it will traverse, and the characters will be printed until the name is displayed.	
<b>5. Output</b>	

```

class Node:
    def __init__(self,data):
        self.data = data
        self.next = None

name = [" J", "O", "H", "N",
        "K", "E", "N", "N", "E", "T", "H",
        "T", "U", "M", "A", "M", "P", "O",
        "S", "O", "R", "E", "L", "L", "A", "N", "O"]

head = Node(name[0])
current = head

for ch in name [1:]:
    current.next = Node(ch)
    current = current.next

temp = head
print ("Full name:")
while temp:
    print(temp.data, end="\n ")
    temp = temp.next

```

```

Full name:
J
O
H
N
K
E
N
N
E
T
H
T
U
M
A
M
P
O
S
O
R
E
L
L
A
N
O

```

## 6. Conclusion

In conclusion, this program shows how a singly linked list can store and display data. Each character of the name is placed on each node also and linked together to form a singly linked list, and by traversing the list, the complete name is printed in order.

