CMPE 30052
LAB ASSIGNMENT NO. 5
LINKED LIST IN PYTHON

Create a program using Python for the different operations of a Linked List.

Your program will ask the user to choose an operation.
1. Create a List
 -Ask the user how many nodes he/she wants.
 -Enter the element/s
 -Display the list
 -Back to menu
2. Add at beginning
 -Ask for the element to be inserted.
 -Display the list
 -Back to menu
3. Add after
 -Ask for the element to be inserted.
 -Ask for the position AFTER which the element is to be inserted
 -Display the list
 -Back to menu
4. Delete
 -Ask for the element (data) to be deleted
 -If found, delete the node with that data.
 -If multiple values, delete only the first element found
 -If not found, display that the element is not found
 -back to menu
5. Display
 -Display the list
6. Count

-Display the number of elements

7. Reverse
-Reverse the list and display it

8. Search
-Ask the user for the element (data) to be searched
-Display a message if the element is found or not

9. Quit
-Exits the program

Requirements:

Download and install the "Linked List.msi" file for the expected output of your Lab Assignment No. 5.

1. A printed Lab Exercise document (with official cover page) containing the source code and screen snapshot output of all options in the menu. (To be submitted individually).
2. The Source code will be uploaded in your ONLINE GDB Account.