Phat Panhareach

Professor Name: Buo Channa

Subject Name: Advance Algorithm

Major: Computer Science (Gen 8)

Group: B

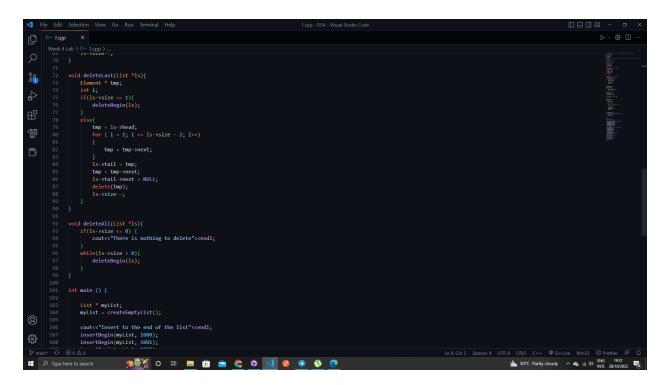
Report Advanced Algorithm Lab 4

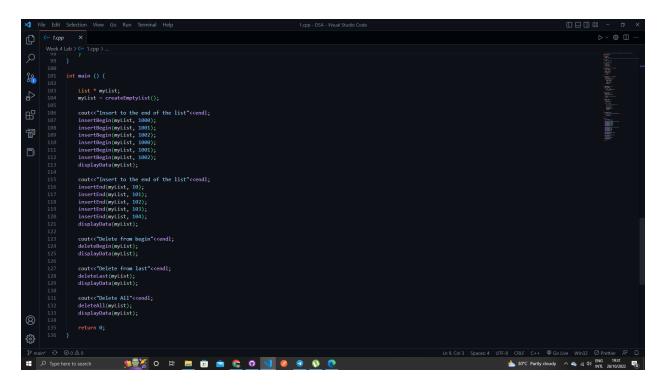
Exercise 1:

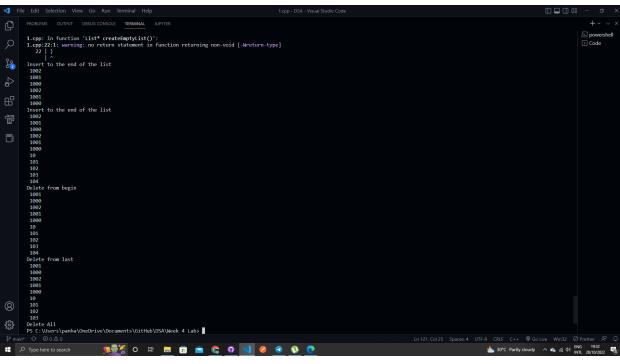
1. Create a single linked list and its full CRUD operations. Test your program in main.

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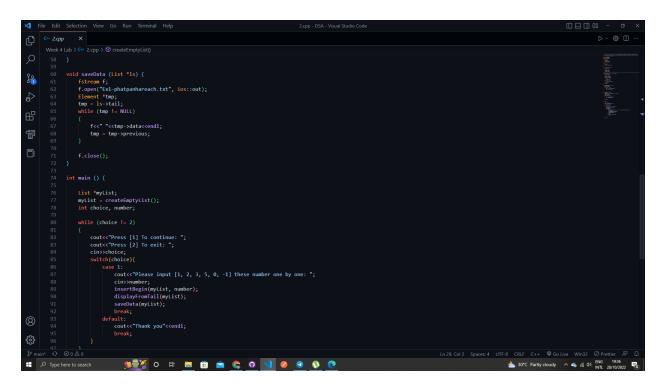


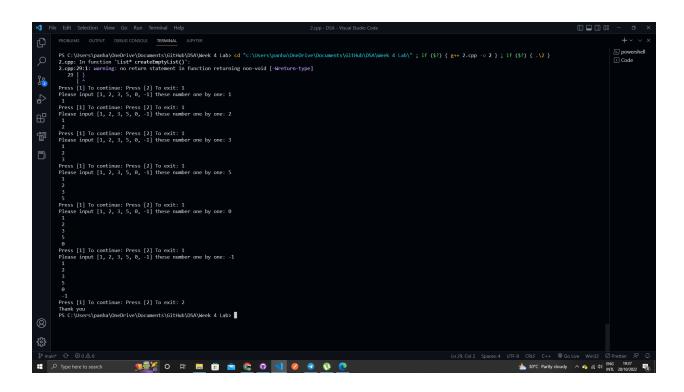


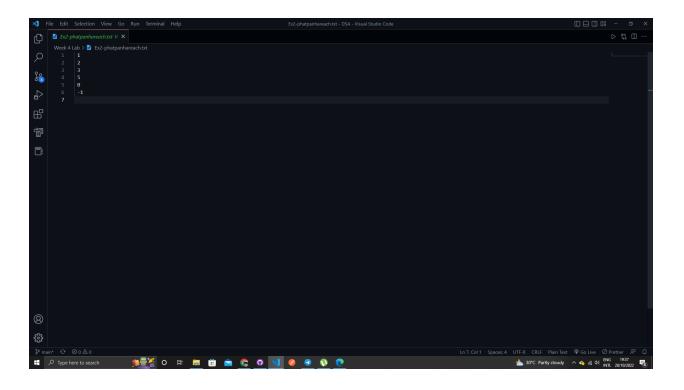


Exercise 2:

Create a double linked list that can store integer numbers. Then initialize the list with these values [1, 2, 3, 5, 0, -1]. Ask a user for n which represents the number of integer numbers then ask the user to input each of those n numbers. Display the data in double linked list and write those data in a text file Output-Ex1-YourName.txt.

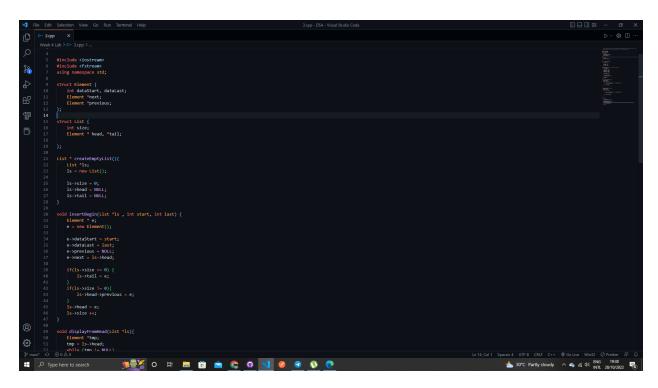


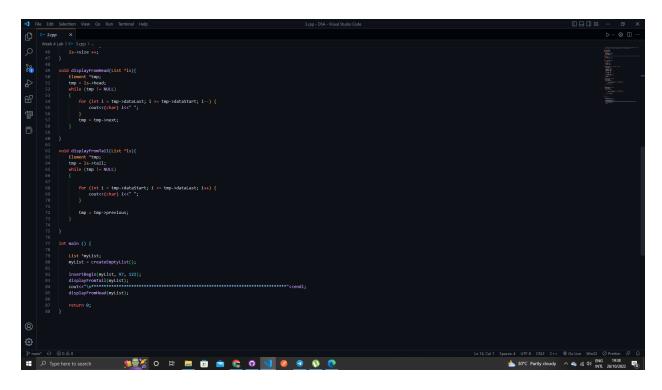


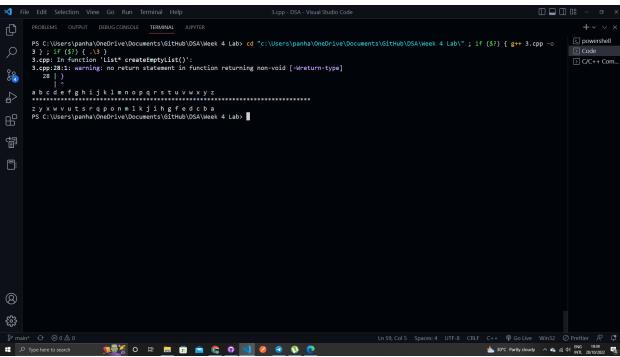


Exercise 3:

3. Create a Double linked list that can stores the English alphabet (A-Z). Display data from A to Z in double linked list. In addition, display data from Z to A in double linked list.







Exercise 4:

Ouput-Ex3e-YourName.txt

- 4. Create a Double linked list that can store integer numbers. Write functions below and test in your main program to implement double link list
- a. Create a function to add a number entered by a user to the end of the list
- b. Create a function to add a number entered by a user to the beginning of the list
- c. Create a function to delete the number at the beginning of the list
- d. Create a function to delete the number at the beginning of the list
- e. Create a function to search a number in the list. Display how many times in appear in the list. In your main program, try to add numbers, delete numbers and search for a number (test with any numbers you prefer). Finally store the data in the list into a file named

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