LAB 02: List Abstract Data Types and Linked Lists

1. Scope of Knowledge:

- Basic knowledge of Linked List
- Understand types of Linked List
- Understand basic operations with Linked List

2. Marterials/Softwares/Tools:

- Visual Studio Code

3. Coding Convention:

- All identifiers must be in English and lower case
- Follow the valid identifers naming rules in C
- Tab is 4 characters
- Curly braces must be aligned
- Statements in curly brackets must be indented by 1 tab

4. Exercise:

Exercise 1:

Practice the exercises about binary tree, and binary search tree in Lesson 2 slide.

Exercise 2:

Write a bookstore management program with basic functions such as adding, searching, deleting, and displaying books.

Hint: Menu of program

```
==============================
Bookstore Demo
==============================
1. Insert Book
2. Search Book By ISBN
3. Delete Book By ISBN
```

4. Display All Books

5. Exit

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Enter Choice:

Requirements:

- Use Singly Linked List
- Book struct declaration as following:

```
// create Book struct
typedef struct Book
{
    int isbn;
    char title[50];
} Book;

// create a node
typedef struct Node
{
    Book book;
    struct Node *next;
} Node;
```